

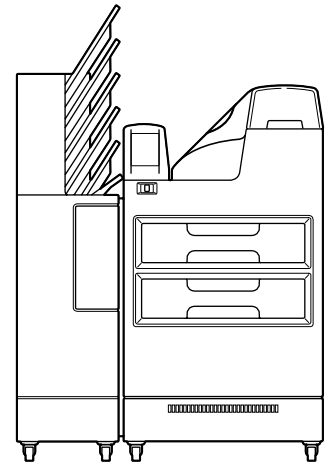
Konica

LASER IMAGER

DRYPRO model 752

OPERATION MANUAL

CODE NO.
0463 (UL), 0467 (CE)



KONICA CORPORATION

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DRY LASER IMAGER DRYPRO MODEL 752

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This device uses laser. Direct exposure of the laser on the skin or in the eyes may lead to serious injuries. And, high voltage may be applied on some sections in the device. Be careful not to suffer an electrical shock upon handling the device.

Be sure to observe the following in order to prevent any danger.

1. NEVER remove the external and internal covers with a screwdriver, and others.
2. NEVER perform any operations, adjustments, or actions other than the specified in this Operation Manual; otherwise, you may be exposed to dangerous radiation.
3. If any problem occurs in this device, contact a service person. NEVER use the troubled device as it is dangerous.

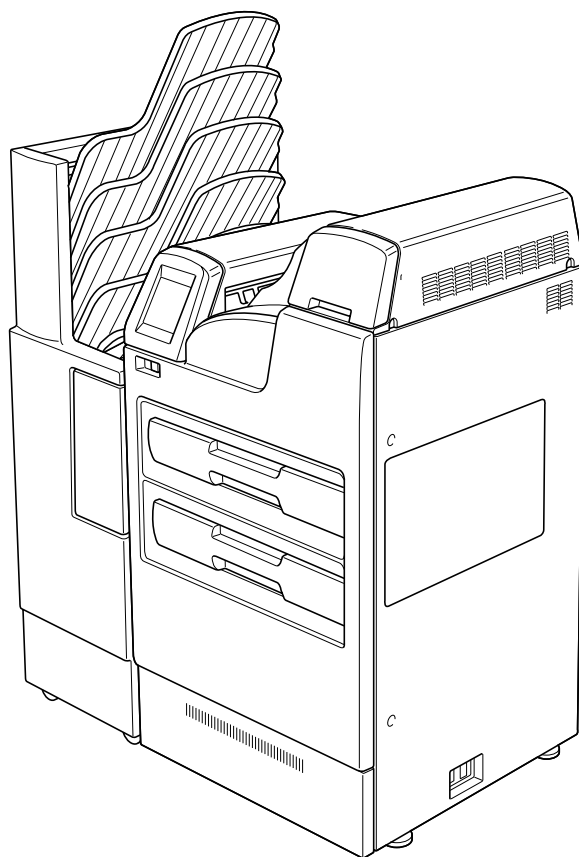
Introduction

Thank you for purchasing Dry Laser Imager DRYPRO model 752.

The Dry Laser Imager DRYPRO model 752 makes all processing dried and improves the environment and the operability while maintaining high performance and high-quality images.

- High-quality Image
 - 1) Realizing super-sharpened images with the pixel size of 40 μm (min.)
 - 2) Newly developing film that is most suitable for the imager and CR
 - 3) Supporting 12-bit image input
 - 4) Rendering high-quality images with advanced image interpolation processing technology
 - 5) Installing the auto density control function for stabled image output
- Operation environment
 - 1) Shortening waiting time for output by high-speed processing capability (120 sheets / hour)
 - 2) Simultaneously loading different sizes and types with the two trays
- Imaging environment







Direct connection to diagnostic devices with DICOM communications function securing expandability on the open network.



- Sorter LiS-752 is optional device.

Descriptions of Symbol Mark

The meaning of following symbol marks described in this equipment and this manual is as the following table.

Symbol mark	Descriptions of symbol mark
	Attention Consult accompanying document.
	Protective earth (ground)
	OFF (power: disconnection from the mains)
	ON (power: connection to the mains)
	ON (only for a part of equipment)
	Alternating current

Descriptions on Warning Label

■ Descriptions on warning (caution label)

- Caution labels imply the degree of the risk that may arise from incorrect use of this product.
- There are three degrees of caution labels, and each is used depending on the level of risk and damage caused by incorrect use and mishandling.

DANGER: If failed to avoid the risk, this implies the imminent danger level that may lead to serious injury including a loss of life.

WARNING: If failed to avoid the risk, this implies the danger level that may lead to serious injury including a loss of life.

CAUTION: If failed to avoid the risk, this implies the danger level that may lead to moderate damage or light injury. Also it is used when a physical damage alone is expected.

		Risk of Damage	
		High	Low
Bodily injury (and damage to property)	Loss of life or serious injury (Damage is serious)	DANGER	WARNING
	Moderate damage or light injury (Damage is light)	WARNING or CAUTION	CAUTION
Damage to property only		CAUTION	

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Warning Label

(1)



(2)



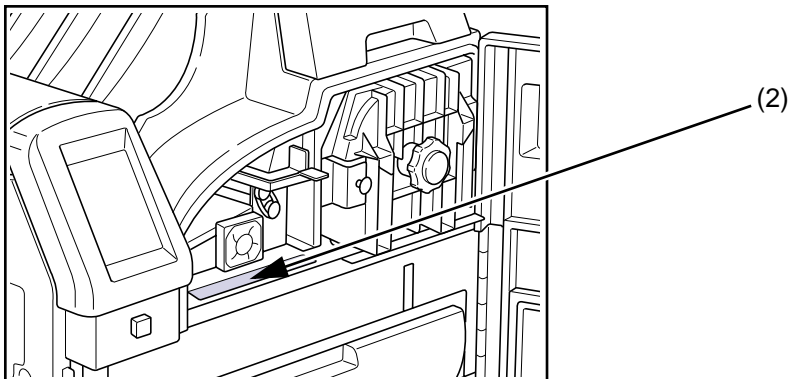
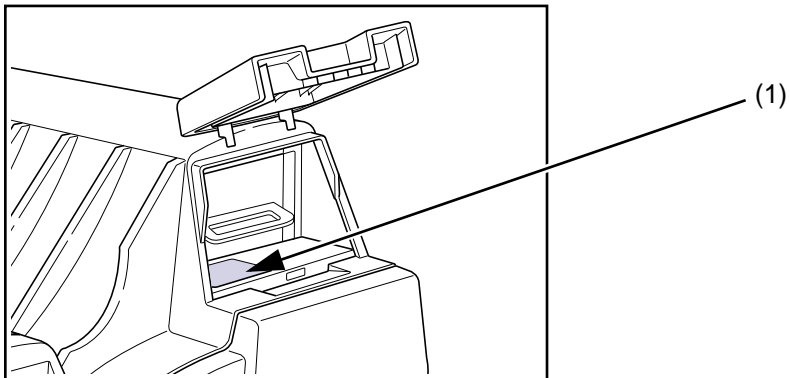
(3)



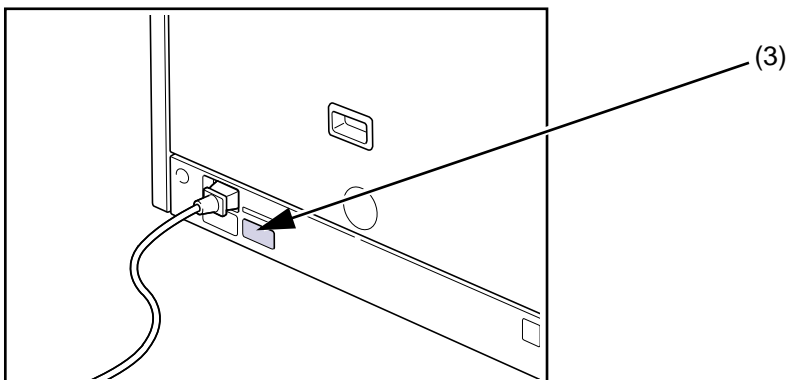
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Warning Label Location

1) Front



2) Rear



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Safety Caution

Before operating this device, be sure to read Safety Caution.

Be sure to observe the safety cautions described here as they are very important for safety.

■ Cautions on installation



Never attempt to modify the device.

If you modify the device, this may cause a breakdown, electric shock, or fire.



For installation, contact a sales office where you purchased this device or a service person.

If you install the device and there are any problems in installation, this may cause an electric shock or a fire.



Be sure to ground the device well.

Never connect the grounding cable to the gas pipe, water supply pipe, lighting rod, or the grounding cable for telephone.



As for the electrical work (including grounding and communications cable work) follow the local regulations on the technical standards.

If the work is not done properly, this may cause an electric shock or breakdown.



Use the power supply with sufficient capacities according to the specifications.

If you use any power supply other than the specifications, or the power supply with insufficient capacities, this may result in heating the electrical components or cause a fire.

■ Cautions on transporting, storing temporally, and servicing



If an abnormal sound, stench, or smoking occurs in this device, immediately turn the power OFF, then unplug the power cable. Contact a sales office where you purchased this device or a service person.

If you continue using the troubled device, this may cause a breakdown, electric shock or fire.



If any error other than the specified in this Operation Manual occurs, contact a service person.

If you repair it by yourself, and there are any problems on it, this may cause an electric shock or fire.



When transporting, temporally storing, or re-installing this device, contact a sales office where you purchased this device or a service person.

If you transporting or re-installing it by yourself, and there are any problems on it, this may cause an electric shock or fire.

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■ Cautions on use



Never open or close any covers other than the specified in this Operation Manual.

High voltage may be applied on some sections in the device. If you touch them accidentally, you may suffer burns or an electric shock.



When replacing FILTER or removing film jams in the discharge section, follow the procedure in this Operation Manual;

otherwise, a fire may be caused.



When touching the LCD (glass) on the control panel, do not give a strong mechanical impact; otherwise it may be damaged. If the LCD is damaged, immediately contact a service person.

This cause a breakdown or injuries.



Plug the power cable completely.

If dust is accumulated on the power plug, or the power cable is not plugged properly, this may cause an electric shock or a fire.



Be sure to use the power cable supplied with this device. Do not use an extension cord or do not connect another device to the same wall outlet; otherwise, a fire or heating may be caused.



Be careful not to trip over the power cable to damage it.

If you continue using the damaged power cable, this may cause an electric shock or fire.



Do not block the air intake or the air outlet of this device; otherwise, a breakdown may be caused.



Do not start up or shut off the device by plugging or unplugging the power cable;

otherwise, an electric shock or breakdown may be caused.



If it is likely that lightning may occur, stop operating the device, and unplug the power cable.

A breakdown may occur depending on the degree of lightning.

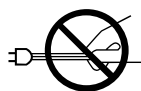


Do not use this device for any purpose other than printing image data; otherwise, a breakdown may be caused.



Do not operate the switches with wet hands; otherwise, you may suffer an electric shock.

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When unplugging the power cable, do not pull it; otherwise, the inner cable may be broken, and this may cause heating or a fire.



Do not let this device exposed to water by cleaning the device with a wet cloth or placing the vase containing water on the device, etc; otherwise, you may suffer an electric shock due to a leakage of currents.



Before you clean the device, be sure to stop operating it, and unplug the power cable or turn the breaker OFF; otherwise, you may suffer injury or the device may be broken down as the fan rotates at the high speed in the device.



If the device is not going to be used for an extended period of time, unplug the power cable for safety purpose; otherwise, dust may be accumulated, resulting in heating or a fire.



As for any servicing other than "Servicing by User" described in this Operation Manual, contact a service person as they require an expert technology.

If you perform any service other than "Servicing by User" by yourself, and there are any problems on it, this may cause an electric shock or fire.



If the smell is unpleasant, install a ventilating fan in a room where this device is installed.

(Please determine the size and capacity of the fan according to the structure of a room.)

Although a chemical substance is discharged during operation, the amount of emissions is within acceptable limits.

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Precaution

■ Disposal Precaution

When disposing the following used parts, accept the regulations of each local government.

- 1) The DRYPRO 752 itself.
- 2) The packaging materials for DRYPRO 752.
- 3) The photosensitive materials used on the DRYPRO 752.
- 4) The lead and lithium batteries inside the DRYPRO 752, which can be hazardous and must be disposed properly.

■ Precaution on Installation Location

Be sure to observe the following conditions for the installation location of this device.

By installing this device in the Radiology Department, you could make the work flow smooth.

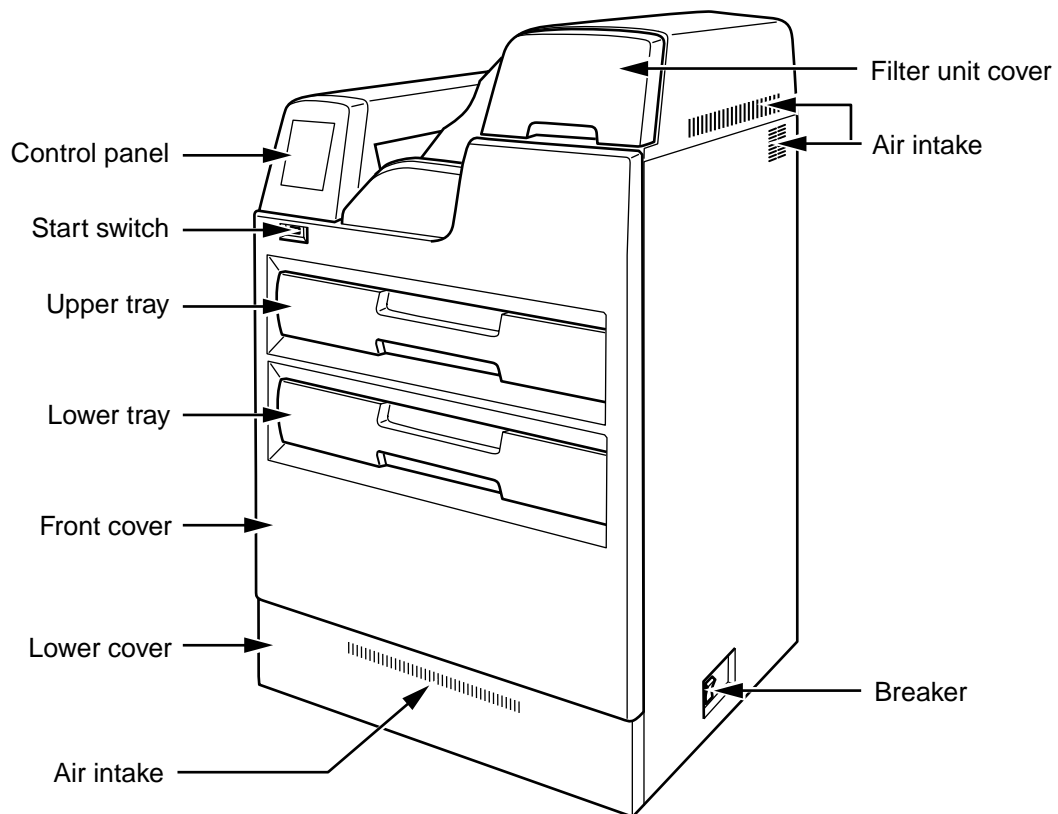
- 1) Install the device in a location where it is not exposed to water.
- 2) Install the device in a location where it is not exceed the temperatures or atmospheric pressure described in the specifications.
- 3) Install the device in a location where it is not exposed to direct sunlight.
- 4) Install the device in a flat place.
- 5) Install the device where there is no likelihood of being given by vibration or impact.
- 6) Install the device in a location where there is no likelihood of being adversely affected by chemical agents, or air containing gas, dust, salt or sulfur, etc.

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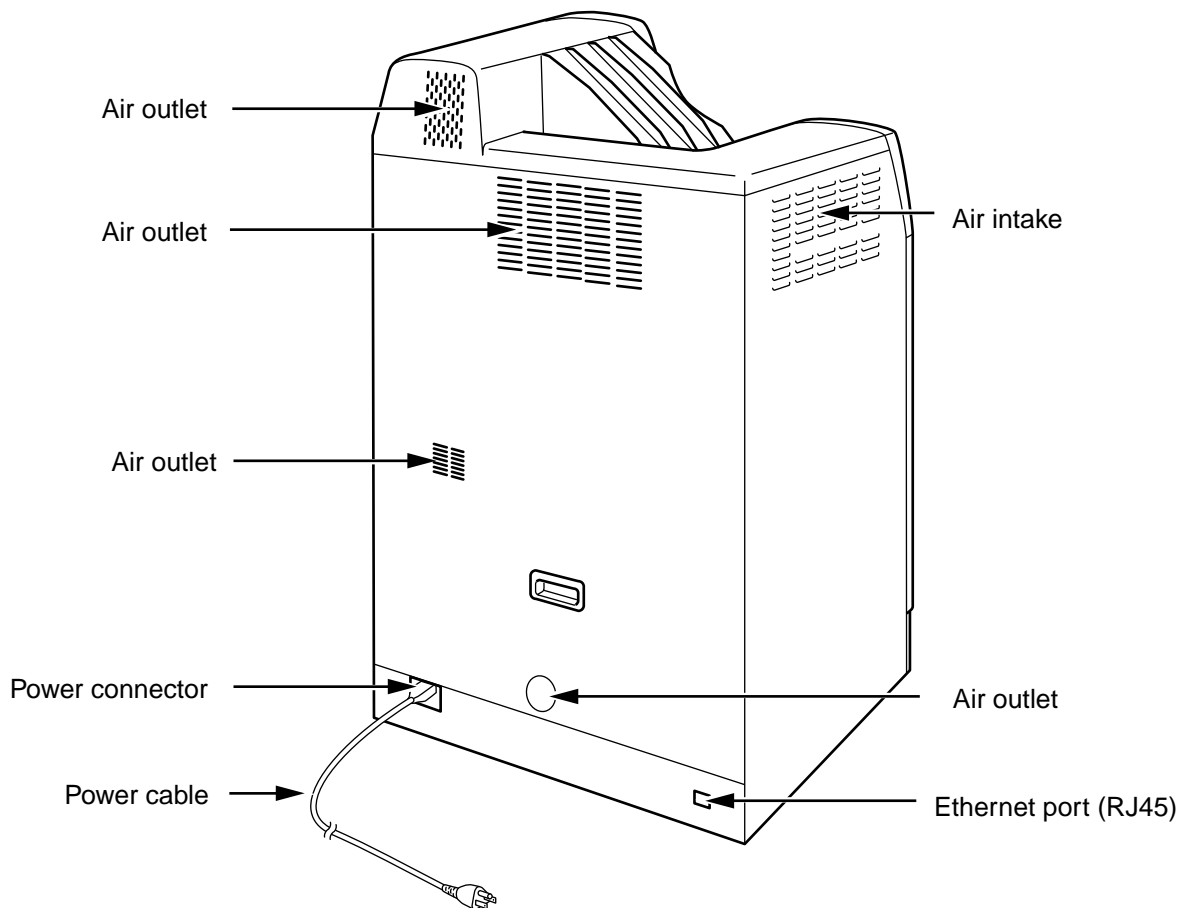
1. Name of Each Component

1-1. Main Body

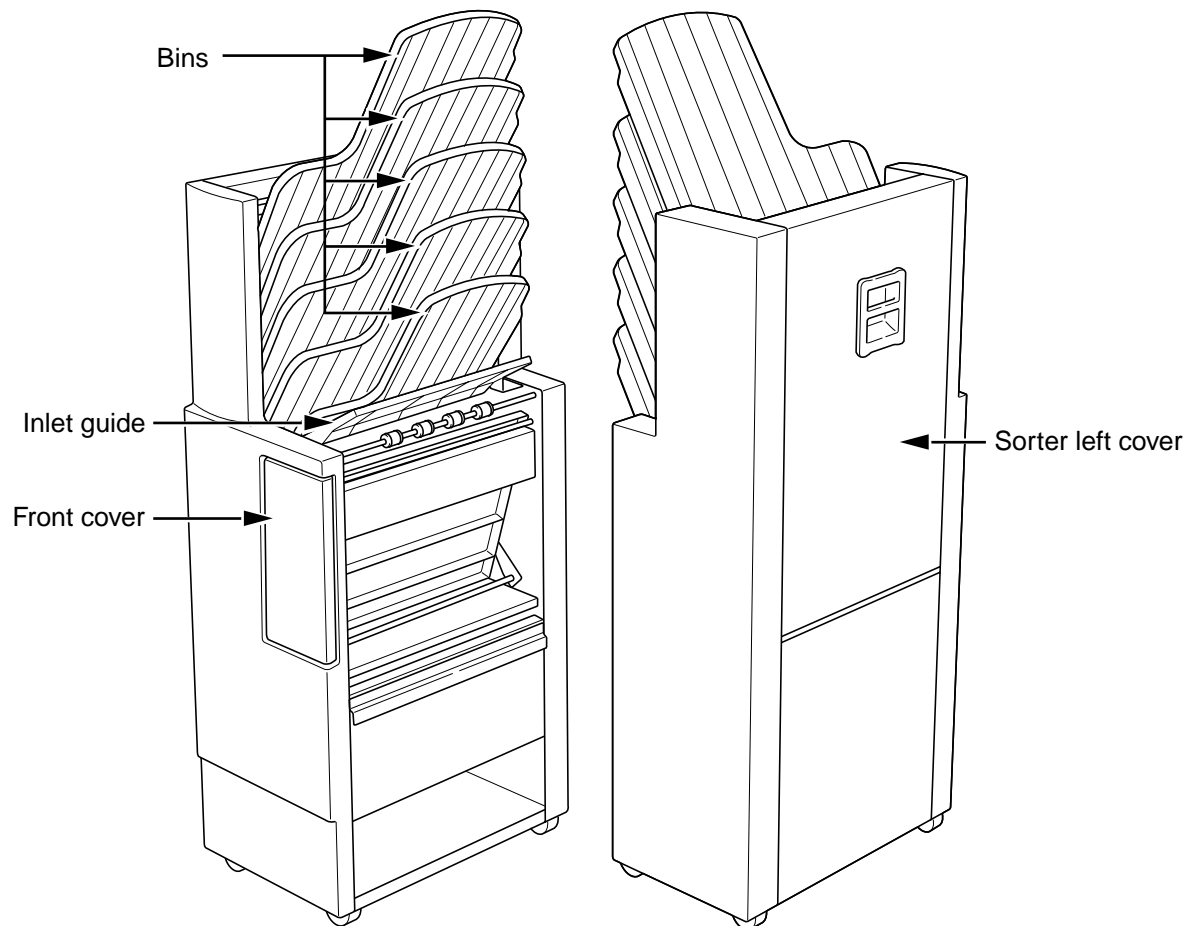
■ Front View



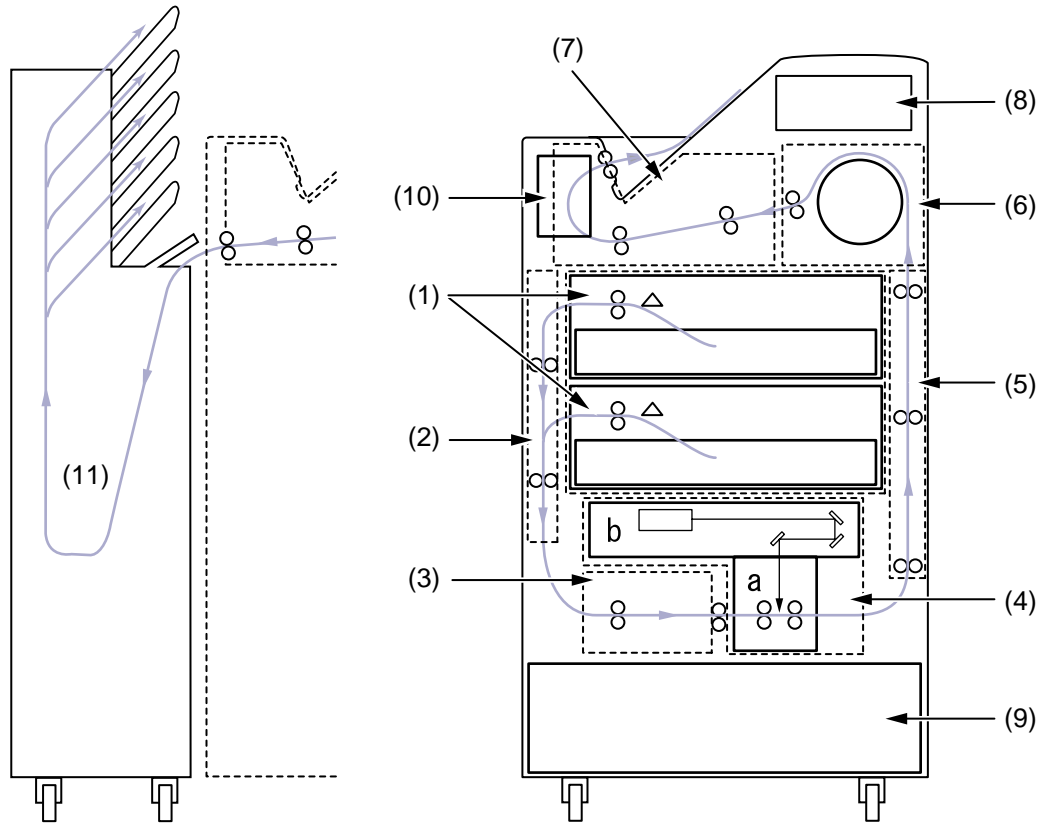
■ Rear View



1-2. Sorter LiS-752 (option)



2. Structure



- Sorter LiS-752 is optional device.

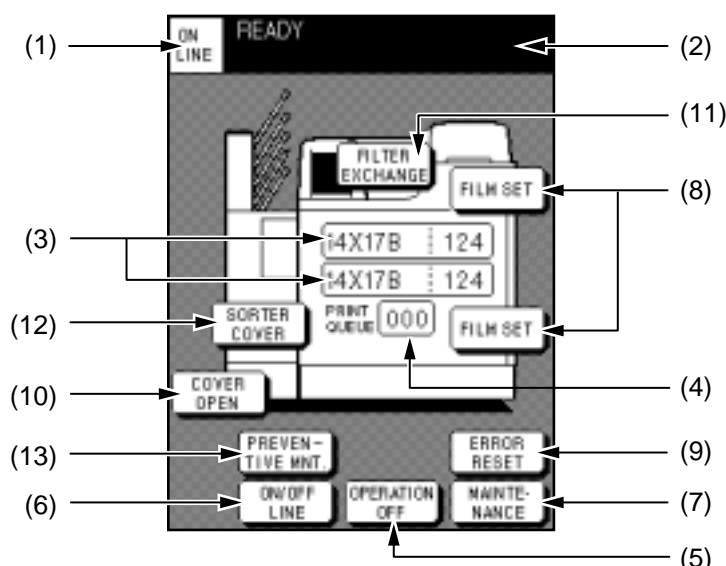
- | | |
|--|--|
| <p>(1) Supply section
Picks up each sheet of film from the tray unit, and sends to the descent transport section.</p> <p>(2) Descent transport section
Sends the picked-up film in the supply section to the position control section.</p> <p>(3) Position control section
Aligns the film sent from the descent transport unit horizontally, and sends it to the exposure section.</p> <p>(4) Exposure section (a: Subscan unit, b: Optical unit)
Performs a laser scanning in synchronization with the film transport and prints an image on the film.</p> <p>(5) Elevator transport section
Sends the film to the HPRO (Heat Processing) section after the exposure.</p> | <p>(6) HPRO (Heat Processing) section
Processes the exposed film by heating.</p> <p>(7) Cooling/Discharge section
Cools the heat-processed film and discharges it.</p> <p>(8) Air-cooling section
Remove the odor generated by heat-processing with a filter.</p> <p>(9) Electrical control section
Consists of the power supply unit for supplying the power to the device and the control unit for controlling the entire device, communicating with the diagnostic devices, and processing / controlling images.
By installing an optional battery for UPS (uninterruptible power supply), the system in the control unit can be backed up even though power failure occurs due to electrical accidents.</p> <p>(10) Control panel
Operates and makes settings of the device.</p> <p>(11) Sorter (option)
Discharges the film discharged from the main body into the specified bin.</p> |
|--|--|

3. How To Operate

The operation, control and settings of this device can be made by using the control panel located on the main unit. The following shows the operating procedures.

3-1. Control Panel

■ Description on screen

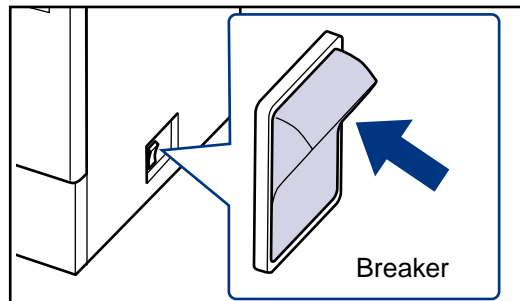


- (1) **ON LINE/OFF LINE Indication**
Displays the ON LINE/OFF LINE status of the device.
- (2) **Message Column**
Displays the status of the device.
READY Ready for print
PRINTING In print process
WARMINGUP During warming-up
MAINTENANCE . . Maintenance mode
- (3) **Information of Loaded Film**
Displays film type, size, number of remaining films in the upper and lower trays respectively.
- | Size | Film type | No. of remaining films |
|---------|------------|------------------------|
| 14 x 17 | B (SD-P) | 0-125 |
| 14 x 14 | C (SD-PC) | |
| 11 x 14 | DRB (DR-P) | |
- (4) **PRINT QUEUE**
Displays the number of films waiting to be printed.
- (5) **OPERATION OFF Key**
Turns the power OFF and stops the operation.
- (6) **ON/OFF LINE Key**
Switches connected/disconnected (ON LINE/OFF LINE) to/from the diagnostic device for communications.
- (7) **MAINTENANCE Key**
Switches to the maintenance mode to change the settings and perform the inspection. This key appears only when the device is in the OFF LINE status. (Refer to [page 16](#) for details.)
- (8) **FILM SET / TRAY OPEN / CALIBRATION Key**
The FILM SET key opens the tray when the film tray becomes empty. (Refer to [page 11](#) for details.)
The TRAY OPEN key opens the tray when a film jam occurs in the tray. (For removing film jams, refer to [page 52](#).)
The CALIBRATION key is displayed to prompt you to perform density correction when [MESS] is selected in the WEEKLY CALIBRATION settings. (Refer to [page 24](#) for calibration.)
- (9) **ERROR RESET Key**
Resets the device when an error occurs. This key appears only when an error occurs. (Refer to [page 49](#) for error reset.)
- (10) **COVER OPEN Key**
Opens the front cover when film jams occur. This key appears only when film jams occur. (For removing film jams, refer to [page 52](#).)
- (11) **FILTER EXCHANGE Key**
This key appears when the FILTER has to be replaced. The procedure for replacing the FILTER appears. (For replacing the FILTER, refer to [page 66](#).)
- (12) **SORTER COVER Key**
Displayed when a film jam occurs in the sorter (option). Displays the procedure for removing film jams. (For removing film jams, refer to [page 52](#).)
- (13) **PREVENTIVE MNT Key**
Displayed when the periodical maintenance inspection period comes. (Refer to [page 67](#) for periodical maintenance inspection.)

3-2. Start-up Operation

Follow the procedure below to turn on the power of the equipment.

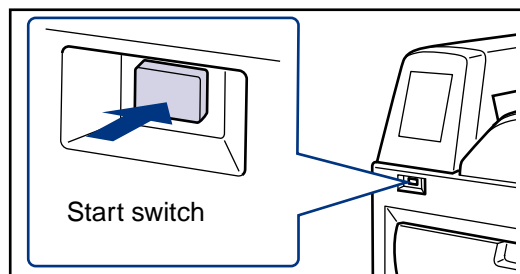
- (1) Turn ON the power of the breaker located at the lower-right of the device.



- (2) Press the start switch below the control panel.

CAUTION

Pressing the start switch again turns OFF the power. In this case, press the start switch again.



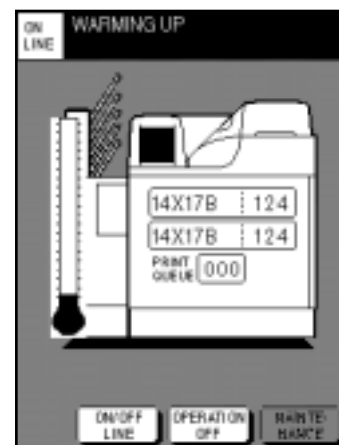
- (3) The startup screen will appear.



- (4) The WARMING UP screen will appear in approx. 2 minutes.

NOTE

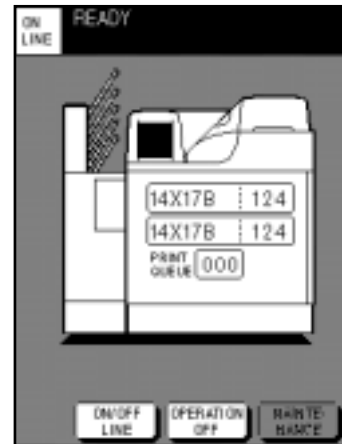
- Although printing cannot be made during warming up, the data from the diagnostic devices can be received. The received data will be printed out after the device goes into the READY status.
- Settings on the maintenance can be made during warming up.
- It takes approx. 25 minutes for the device to go to the READY status. Note that it depends on temperature around the device.



- (5) When READY appears on the message column, printing can be made.

NOTE

Use the START TIMER function to set the device to READY on the specified time without pressing the start switch.
(Refer to [page 18](#) for details on how to set the START TIMER function.)



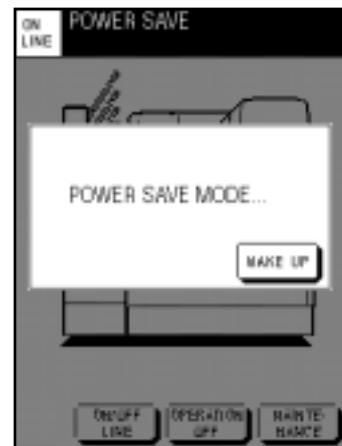
■ Power saving mode

The DRYPRO has the power saving mode that saves power consumption automatically after no data is printed or no printing data is received for a specified time.

When the DRYPRO goes into the power saving mode, the screen on the right appears on the control panel, and the backlight fades out. The power saving mode is not enabled during OFF LINE mode.

The DRYPRO exits from the power saving mode and starts warming up by performing the following operations.

- Touch [WAKE UP] on the control panel.
- When the DRYPRO receives printing data from a diagnostic device, it exits from the power saving mode automatically, and starts printing when it goes into the READY status.



NOTE

- The time period over which the DRYPRO goes into the READY status depends on the power saving mode levels.
- You can set Use/Disuse or the level of the power saving mode on the MAINTENANCE MENU screen. (Refer to [page 45](#).)

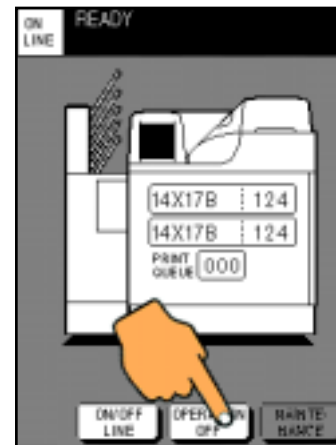
3-3. Shut-down Operation

Following the procedure below to shut down the device.

- (1) Touch [OPERATION OFF] on the control panel.

CAUTION

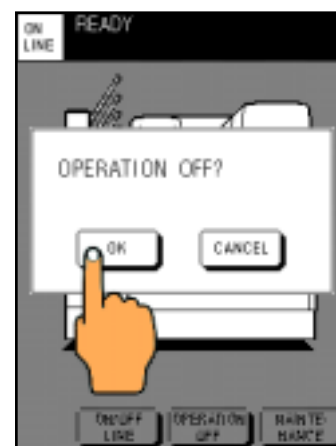
Be sure to check that PRINT QUEUE shows "000" before performing the shut-down operation. If you shut down the device when PRINT QUEUE shows any number other than "000", the remaining data that has not printed yet will be printed out next time the device starts up.



- (2) The confirm screen of OPERATION OFF appears. Different confirm screens appear when the START TIMER is set to ON and when not set.

- When START TIMER is not set to ON;
If START TIMER is not set to ON, when you touch [OPERATION OFF] on the normal screen, the confirm screen on the right appears.

- (1) Touch [OK] to perform OPERATION OFF, then the message shown on the lower-right appears. Touching [CANCEL] will go back to the normal screen.



- (2) The device will be shut down in approx. 2 hours, and the display on the control panel will go off. The FILTER fan functions for approx. 2 hours until the HPRO (heat processing) section is cooled down. During that time, the backlight of the control panel fades out.

IMPORTANT

When you need to print out some data during shut-down operation, touch [CANCEL] to go back to the normal screen.



- When START TIMER is set to ON;

If START TIMER is set to ON, when you touch [OPERATION OFF] on the normal screen, the time at which the DRYPRO goes into the READY status for the next time appears on the confirm screen on the right.

- (1) Touch [OK] to perform OPERATION OFF procedure.

Touching [CANCEL] will go back to the normal screen.

When START TIMER is set to ON, the device will not turn off, and go into the standby mode.

In the standby mode, the backlight of the control panel fades out with the time to go to READY for next time displayed.

[CANCEL] will appear after a lapse of certain time after the device goes into the standby mode.



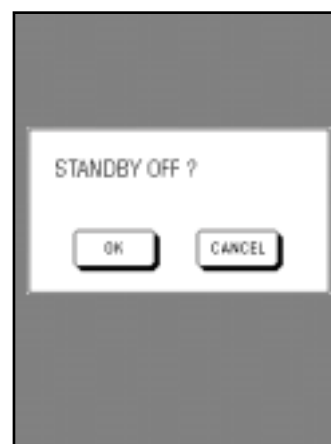
Operation OFF message
(Start Timer ON)

IMPORTANT

- Touch [CANCEL] on the screen on which the standby mode message appears if you wish to make printing in the standby mode. The confirm message on the lower-right appears, touch [OK] to restart the device.
- [CANCEL] will appear after a lapse of certain time (approx. 2 minutes) after the device goes into the standby mode.
- When you use the START TIMER function, leave the breaker of the device ON after OPERATION OFF procedure is made. (Refer to [page 18](#) for details on how to set the START TIMER function.)



Standby mode message



Restart confirm message

CAUTION

- When the power turns OFF even though you set the START TIMER to ON, there is a possibility that a power failure may occur during the standby mode.
Press the start switch to re-start the equipment.
- If a power failure occurs during the standby mode, the message for showing the occurrence of a power failure appears on the Start-up screen.



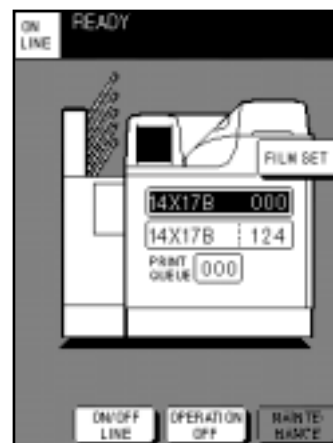
Power failure message

3-4. Film Loading

When the tray becomes empty, "FILM EMPTY" appears and [FILM SET] is displayed on the right of the loading film information of the empty tray.

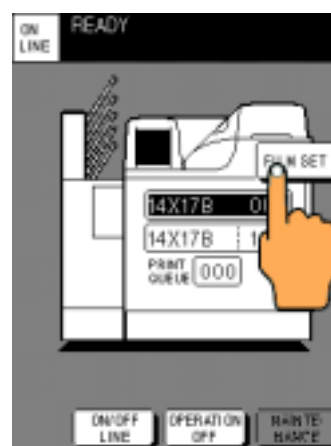
The screen on the right shows that the upper tray becomes empty.

- The film size for this device can be selected from 14"x17", 14"x11", and 14"x14". The film size for each tray is set by a service person at installation.
- It is possible to receive print data from the diagnostic device while the film is loaded.



Follow the procedure below to load the film.

- (1) Touch the displayed [FILM SET].
The message showing the tray being opened appears.



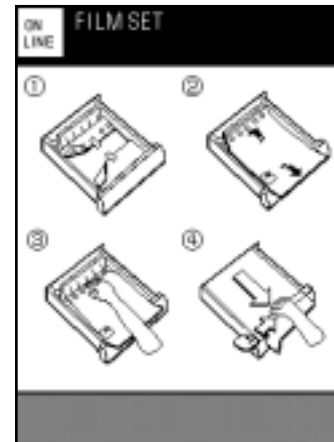
Then, the empty tray pops out slightly, and the screen showing the procedure for loading the film (next page) is displayed.

CAUTION

If a film is in print process, the cover will not open until the printing completes. It will take max. 95 seconds.



Message for tray being opened

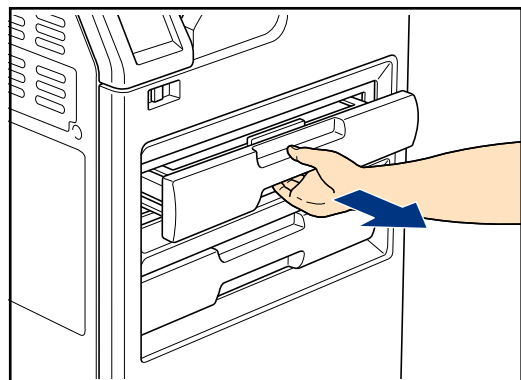


Film loading screen

- (2) Slowly pull out the opened tray as far as it goes.

CAUTION

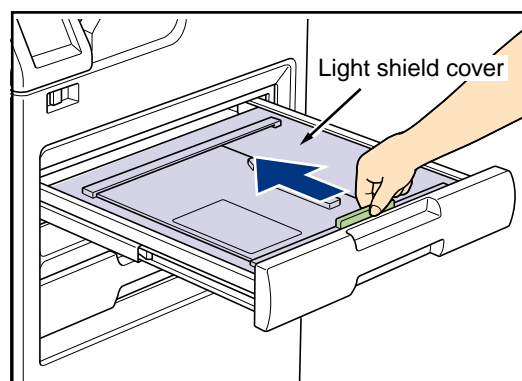
Do not place anything on the opened tray.



- (3) Hold the handle (green part) of the tray and open the light shield cover fully.

CAUTION

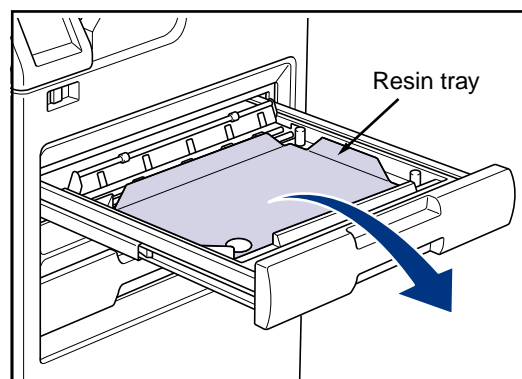
The light shield cover of the tray cannot be opened unless the tray is pulled out completely.

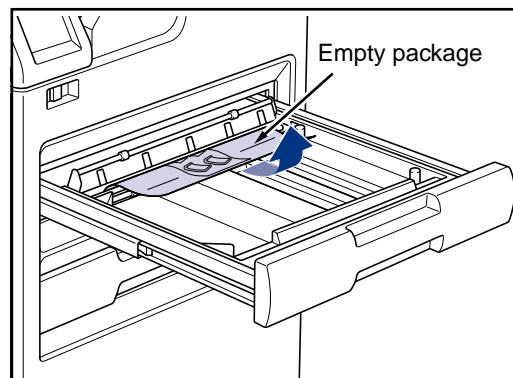


- (4) Remove the resin tray and the empty film package that remain in the tray.

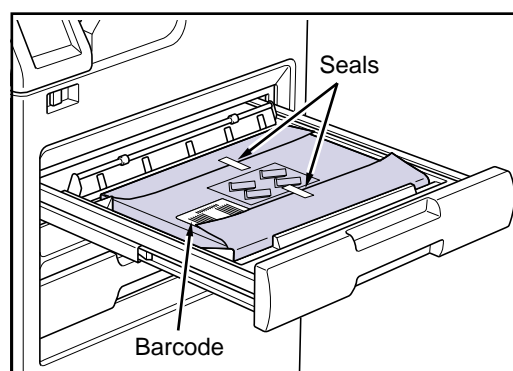
CAUTION

When disposing of the resin tray and the empty film package, they should be treated as industrial wastes. Dispose of them following the regulations of your institution.

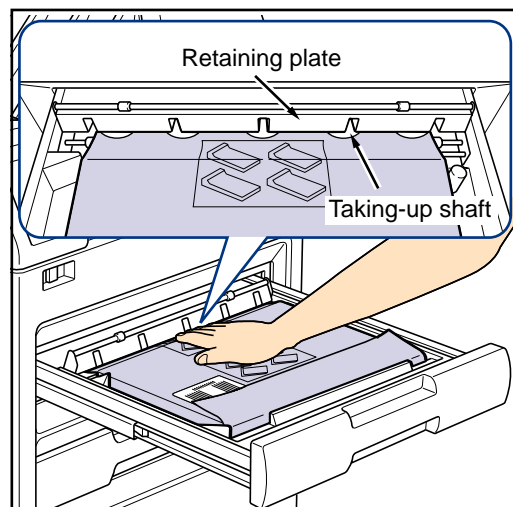




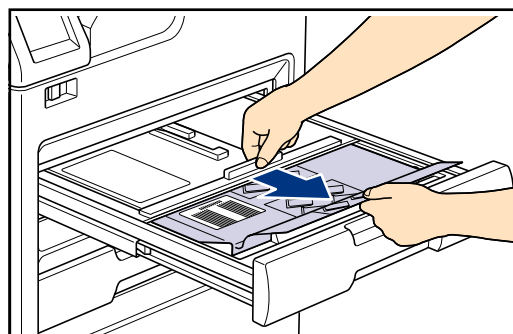
- (5) Load the package of new film so that the barcode comes at the front-left position, and peel off the seals at the edges of the package.



- (6) Insert the back of the package between the retaining plate and the taking-up shaft firmly.



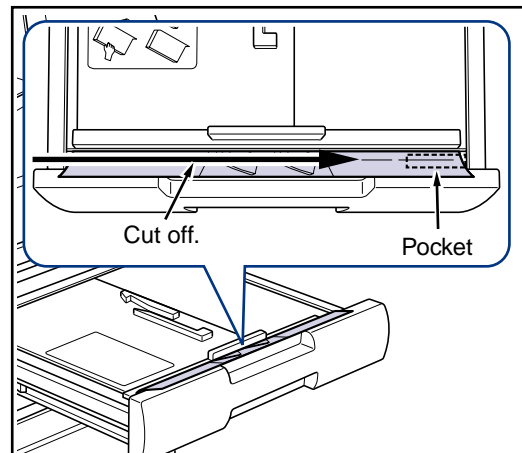
- (7) Close the light shield cover completely so that the front of the package lies off the cassette.



- (8) Cut off the front of the package that lies off the cassette with the supplied cutter.

CAUTION

Put the cutter after use into the pocket on the right-front of the tray for storage.



- (9) Push the tray to the back until it is locked.
When the tray goes into the back completely, the message appears.
Then, the message of NOW READING FILM DATA (barcode) of the film package appears.
After reading the barcode is complete, the film of the calibration pattern for the auto density correction is discharged.

CAUTION

If some films are queued, the automatic calibration is performed, but if no film is queued, the automatic calibration is not performed.



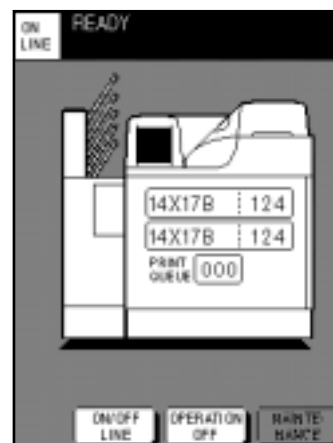
Film data reading message

- (10) The normal screen re-appears after the auto density correction, and print operation can be made. As the data of the film that has been loaded newly is displayed, verify the film size, type, and the number of films.

NOTE

If the other tray is also empty, when you load the film in one tray and close it, the other tray pops out automatically.

Load the film by referring to Steps (2) or later.

**CAUTION**

- If you fail to cut off the film package, the bar-code cannot be read and "FILM SET" is displayed again. Open the tray again, and cut off the edge of the package.
- If the first film cannot be picked up properly because the package cannot be taken up correctly or other reasons, the error message appears. In this case, remedy by following "5-4. When Film Fails to be Loaded". (Refer to [page 61](#).)

4. Maintenance Mode

4-1. Function of Maintenance Mode

This device has the maintenance mode that executes maintenance functions.

Touching [MAINTENANCE] on the control panel on OFF LINE will switch into the maintenance mode and display the maintenance screen on the control panel.

In addition to the maintenance operations, the START TIMER function can be set, and re-printing of the data that has already been printed can be made, etc.

- The print data from the diagnostic device cannot be received or printing cannot be made in the maintenance mode.

The following shows the maintenance items that can be selected/executed in the maintenance mode.

No.	Display	Description
1	START TIMER	Sets the START TIMER function to ON/OFF, and sets the start-up time for each day. The START TIMER screen will appear. (Refer to page 18.)
2	TIME SET	Sets the time of the clock of the device. The TIME SET screen will appear. (Refer to page 19.)
3	PREVIOUS PRINT	Re-prints the saved data that has been already printed out (PREVIOUS data). The PREVIOUS PRINT screen will appear. (Refer to page 20.)
4	CALIBRATION	Prints the calibration sheet and corrects the density on the film. (Refer to page 24.)
5	TEST PRINT	Prints out the SMPTE pattern to control the density. The TEST PRINT screen will appear. (Refer to page 26.)
6	COVER OPEN	Open the front cover. (Refer to page 30.)
7	PANEL ADJUST	Adjusts the LCD contrast, the brightness of the backlight, and the touch area in the touch panel. The PANEL ADJUST screen will appear. (Refer to page 31.)
8	QUEUE CLEAR	Clears the data queued in the device that has not been printed yet. The QUEUE CLEAR screen will appear. (Refer to page 33.)
9	COLD START	Cold-starts (re-start) the device. (Refer to page 35.) CAUTION When the device is re-started by COLD START, all of the print data queued for printing and the saved data that has been already printed out will be deleted.
10	FILM DATA	Confirms the sum of film. Sets the types of film to be counted, and date on which film is counted. (Refer to page 36.)
11	PRINT CONDITION	Sets the print preferences for each of the connected diagnostic devices. (Refer to page 38.)
12	USER LUT	Creates user's own LUT curve, and applies it to the diagnostic device. (Refer to page 43.)
13	FILMSET RETRY	Used when the film fails to be loaded. (Refer to page 61.) CAUTION Do not use this mode under the normal operation as the number of films in the tray resets to 0.
14	POWER SAVE	Sets the power saving function of the device. (Refer to page 45.)

CAUTION

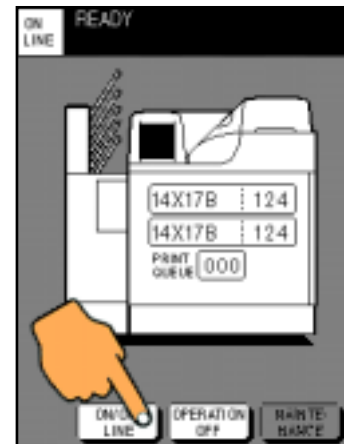
The print data from the diagnostic device cannot be received or printing cannot be made in the maintenance mode. The print data queued for printing will be printed out after the device exits from the maintenance mode.

4-2. Switching Maintenance Mode

■ Start-up maintenance mode

- (1) Touch [ON/OFF LINE] on the normal screen to switch into OFF LINE.

ON LINE displayed on the upper-left corner of the screen changes to OFF LINE, and [MAINTENANCE] appears on the lower-right corner of the screen.

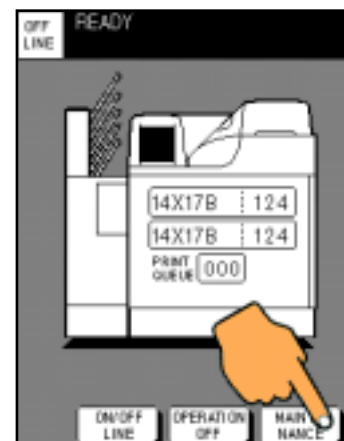


- (2) Touch [MAINTENANCE].

The maintenance menu (MAINTENANCE) screen listing the maintenance items appears.

CAUTION

When touching [MAINTENANCE] during print, "NOW PRINTING PLEASE WAIT" is displayed and the maintenance screen does not appear until the printing operation is complete. The data queued for printing will be printed out after the device exits from the maintenance mode.



- (3) Touch the key of an item to execute.

The set screen or messages that correspond to the selected item appears.

For details on how to operate each maintenance item, refer to the following pages.



■ Shut-down maintenance mode

Touching [EXIT] on the maintenance menu screen will exit the device from the maintenance mode, and return to the normal screen.

- When the normal screen re-appears, touch [ON/OFF LINE] to go back to OFF LINE.
- When PREVIOUS PRINT, CALIBRATION, or TEST PRINT is set, the print data for those will be printed out after the device exits the maintenance mode.

4-3. How To Operate Maintenance Mode

■ Setting START TIMER Function

Setting the START TIMER function will start up the device from the Standby status automatically, and make it into READY on the specified time. Setting the START TIMER function to ON/OFF, and the start-up time can be made for each day.

Follow the procedure below to set the START TIMER.

- (1) Touch [START TIMER] on the maintenance menu screen.

The START TIMER screen will appear.

The key on the right of each day shows the ON/OFF of the START TIMER.

"H" and "M" on the right of those keys show the hour and minute for start time.



- (2) Touch [ON] on the right of [START TIMER] to activate the START TIMER function.

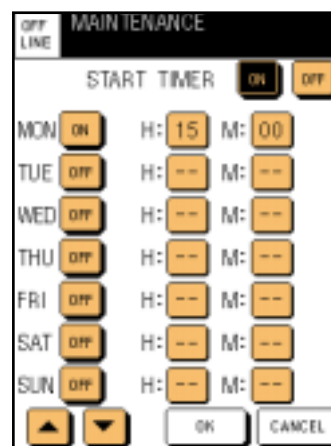
Touching [OFF] clears the START TIMER function.

The selected key will be highlighted.

The key on the right of each day shows the ON/OFF of the START TIMER.

- (3) Touch the key on the right of each day on which you wish to start the device automatically to display ON. Touching the key again displays [OFF].

- (4) When setting the time, touch H (hour) or M (minute) on the right of each day, then touch [▲] / [▼].



- (5) After the settings are complete, touch [OK].

The setting becomes valid, and the maintenance menu screen re-appears.

When you touch [CANCEL], the maintenance menu screen re-appears without registering the settings.

IMPORTANT

When you set the START TIMER function to ON, leave the breaker of the device ON.

■ Setting Date/Time (TIME SET)

Follow the procedure below to set the date and time for the clock in the device. Set the time zone and the use/disuse of the summer time depending on the areas in which you use the device. Follow the procedure below to make settings.

- (1) Touch [TIME SET] on the maintenance menu screen.

The TIME SET screen will appear.

The keys of DATE on the TIME SET screen show the date (D), month (M), and year (Y) that are currently set.

The keys of TIME show the current time (hour (H) and minute (M)).



- (2) Touch the item key to be changed when setting the date/time.

The selected key will be highlighted.



- (3) Touch [▲] / [▼] to change the value.

The month (M) key shows each month in abbreviation (JAN to DEC) every time you touch the [▲] / [▼] key.

- (4) Confirm that "64" is displayed next to TIME ZONE.

"64" is code No. of time zone of Japan.

If any number other than "64" appears, display code No. "64" next to TIME ZONE by touching [▲] / [▼].

For details on the area and code No. of time zone, refer to Appendix at the end of this manual ([page 71](#)).

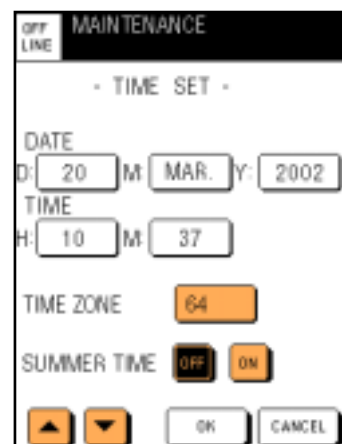
- (5) Confirm that [OFF] next to SUMMER TIME is highlighted.

If [OFF] is not highlighted, touch [OFF] to highlight.

- (6) After the settings are complete, touch [OK].

The setting becomes valid, and the maintenance menu screen re-appears.

When you touch [CANCEL], the maintenance menu screen re-appears without registering the settings.



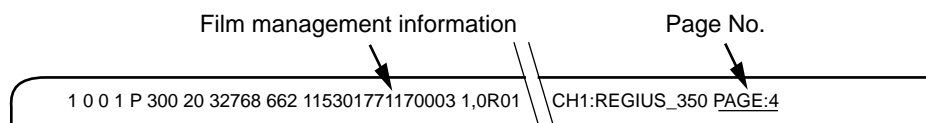
■ Re-printing Printed Page (PREVIOUS PRINT)

In this device, as the data that has already been printed is stored in the inner hard disk, re-printing can be made later. In this case, it is possible to change the print preferences such as the LUT applied for printing, print density, and contrast, etc.

Follow the procedure below to re-print.

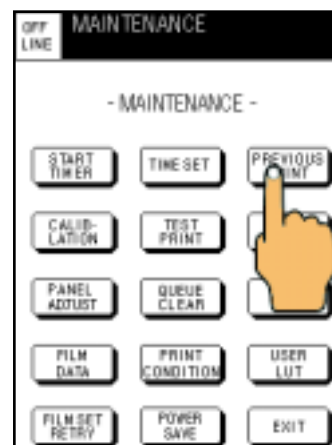
NOTE

The print data in the device is stored for each diagnostic device. The page number is assigned to each print data in order in which it is received from the diagnostic device and printed out. (The page No. is printed on the upper part of the film as the film management information.)



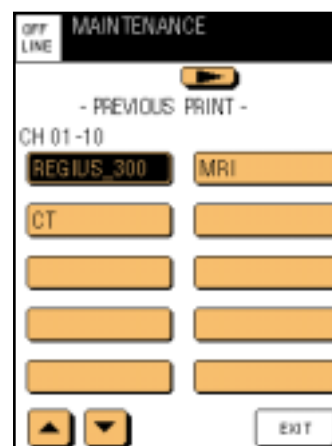
- (1) Touch [PREVIOUS PRINT] on the maintenance menu screen.


The PREVIOUS PRINT screen (diagnostic device select screen) will appear.
The names of the connected diagnostic devices are listed on the diagnostic device select screen.



- (2) Touch the name of the diagnostic device from which the print data is received to print.

The selected diagnostic device name will be highlighted.
When 10 or more diagnostic devices are connected, touch [▲] / [▼] to scroll the list of the diagnostic device names.



- (3) Touch  on the upper part of the screen.
The print page set screen will appear.

- (4) Touch the box on the right of [PAGE NO], and input page No. that you wish to re-print.

In order to input the page No., touch the box on the right of [PAGE NO.], then touch the numeric key on the lower portion of the screen.

If you input the number incorrectly, touch [C] to clear it, and input again.

- (5) Touch the box on the right of [COPY] and input the print count.

The procedure for inputting the print count is the same as the one for inputting the page No.

- (6) If you print under the previous print conditions, confirm that [OFF] on the right of [CHANGE CONDITION] is selected, and touch [STORE].

The print data on the specified page will be queued.

If the specified page has been already deleted, "PREVIOUS PAGE ERROR" is displayed.



CAUTION

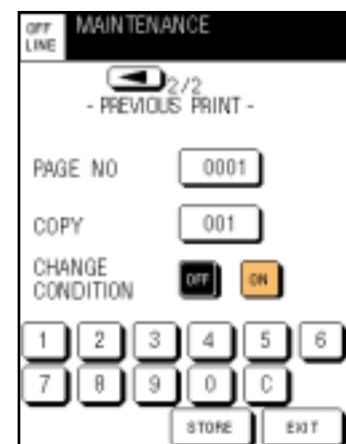
The page specified on the PREVIOUS PRINT screen will be printed out after the device exits from the maintenance mode.

CAUTION


The amount of data that can be saved in the device is about 100 pages. When the storage becomes full, the data is erased in order in which it is stored.

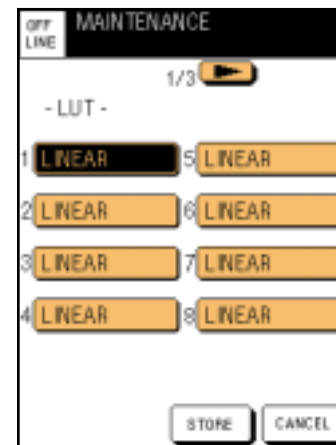
- (7) Touch [ON] on the right of [CHANGE CONDITION] when you print under different conditions from the previous ones.

The LUT select screen will appear.



- (8) Touch a LUT name you wish to apply for printing.
The selected LUT name will be highlighted.

- (9) Touch  on the upper part of the screen.
The print preference set screen (2/3) will appear.



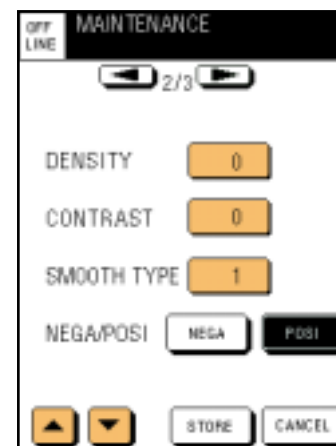
- (10) Touch the key on the right of the setting item, then touch [▲] / [▼] to set the following items.

DENSITY : Adjust the density of an image.
Selectable from -7 to 7.
Setting a negative value will make the density lighter, and a positive value, darker.


CONTRAST : Adjust the contrast of an image.
Selectable from -7 to 7.
Setting a negative value will make the contrast lower, and a positive value, higher.

SMOOTH TYPE : Sets the smoothing type of an image.

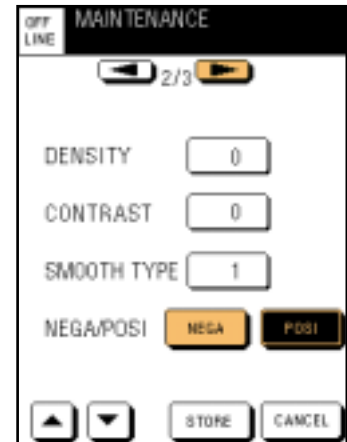
SMOOTH TYPE	Settings
OFF	Does not perform the magnification interpolation.
1	Performs the Bilinear interpolation.
2-6	Performs the Cubic Spline interpolation. Increasing the value will smooth an image greater.
7	Does not perform the magnification interpolation. But prints out in the MAGNIFICATION setting. When you wish to change this setting, ask a service person.



(11) Select NEGA/POSITIVE by touching [NEGA] or [POSITIVE].

(12) Touch  on the upper part of the screen.

The print preference set screen (3/3) will appear.



(13) Touch the key on the right of the setting item, then touch the numeric keys to set the following items.

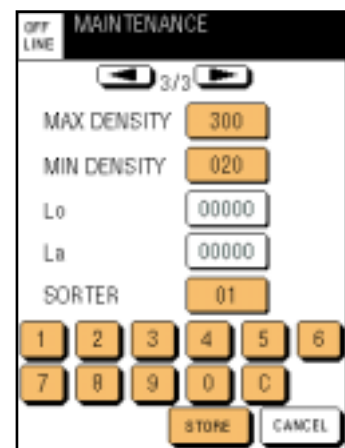
MAX DENSITY : Sets the maximum density of an image.

MIN DENSITY : Sets the minimum density of an image.

Lo : (Not used for the current version.)

La : (Not used for the current version.)

SORTER : Sets the bin in the sorter (option) into which the film is discharged.




(14) Touch [STORE].

The printing data on the specified page will be queued and the print page set screen will re-appear.

If the specified page has been already deleted, "PREVIOUS PAGE ERROR" is displayed.

(15) If there are other data to be printed, repeat from Step (4) to set the print page.

If you wish to print the data from another diagnostic device, touch  to display the PREVIOUS PRINT screen, and repeat from Step (2).

(16) To complete the settings of re-printing, touch [EXIT] to return to the MAINTENANCE MENU screen.

(17) Touch [EXIT] to end the maintenance mode.

When the normal screen re-appears, the data on the specified page will be printed out.



■ Calibrating Density (CALIBRATION)

The device has the densitometer in the cooling/discharge section, which allows you to control the density automatically.

If there is a problem with the density, print the calibration sheet from this screen to calibrate the density.

- Calibration

- (1) Touch [CALIBRATION] on the maintenance menu screen.

The message for selecting the tray will appear.



- (2) Touch the key of the tray for which you wish to perform density correction.

The print data in the calibration sheet will be queued, and the maintenance menu screen will re-appear.

If you wish to perform density correction for the other tray, repeat from Step (1).



- (3) Touch [EXIT] to end the maintenance mode.

When the normal screen re-appears, the film in the selected tray is transported and the calibration sheet is printed out. Wait until printing is complete. After printing is end, the density correction is complete.

IMPORTANT

- The calibration sheet is used as the sampling data (the data before the density correction) for the automatic density correction. When you check and control the density, use the SMPTE pattern which is printed out by TEST PRINT on the maintenance menu. (Refer to [page 26](#).)

- **Automatic calibration**

The DRYPRO has the automatic density calibration function that perform the density calibration automatically after a lapse of the specified time or specified number of printing. (Instead of performing automatic calibration, you can make [CALIBRATION] appear on the screen to show you that the calibration needs performing depending on the settings at installation.) Or the automatic density calibration can be performed when the film is loaded.

CAUTION

- Even after a lapse of the specified period or specified number of printing, the automatic calibration is not performed if printing data is not queued. The automatic calibration is performed when the printing data is queued after a lapse of the specified period or specified number of printing.
- The automatic calibration is performed if the printing data is not queued even when the film is loaded. The automatic calibration is performed when the printing data is queued on the next time.

■ TEST PRINT

Follow the procedure below to print out the SMPTE pattern in the device used for density control. Follow the procedure below to print out.

- How to print out

- (1) Touch the [TEST PRINT] key on the maintenance menu screen.

The message for selecting the tray will appear.



- (2) If you print under the previous print conditions, touch the key of the tray in which film to be used is loaded.

The confirm screen will appear. (Proceed to Step (13).)



- (3) Touch [CONDITION SET UP] when you print under different conditions from the previous ones.


The TEST PRINT CH screen (diagnostic device select screen) will appear.

The names of the connected diagnostic devices are listed on the diagnostic device select screen.



- (4) Select the diagnostic device name you wish to apply as the exposure conditions of test printing.


The selected diagnostic device name will be highlighted.
When 10 or more diagnostic devices are connected, touch [▲] / [▼] to scroll the list of the diagnostic device names.

- (5) Touch  on the upper part of the screen.

The LUT select screen will appear.

- (6) Touch a LUT name you wish to apply for printing.

The selected user LUT name will be highlighted.

- (7) Touch  on the upper part of the screen.

The print preference set screen (2/3) will appear.

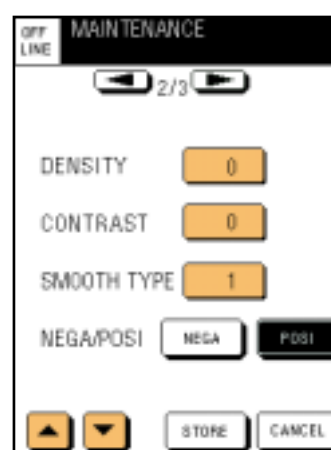
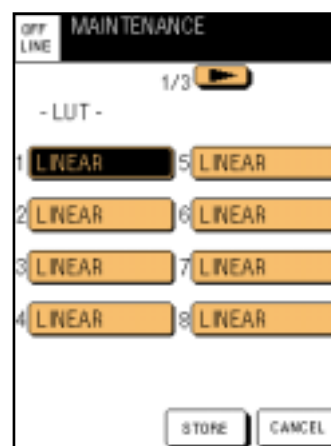
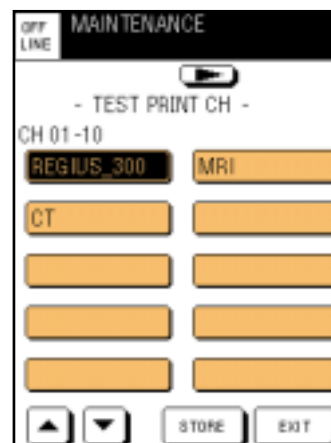
- (8) Touch the key on the right of the setting item, then touch [▲] / [▼] to set the following items.

DENSITY : Adjust the density of an image.
Selectable from -7 to 7.
Setting a negative value will make the density lighter, and a positive value, darker.

CONTRAST : Adjust the contrast of an image.
Selectable from -7 to 7.
Setting a negative value will make the contrast lower, and a positive value, higher.


SMOOTH TYPE : Sets the smoothing type of an image.

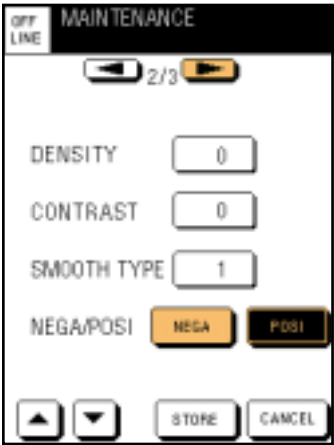
SMOOTH TYPE	Settings
OFF	Does not perform the magnification interpolation.
1	Performs the Bilinear interpolation.
2-6	Performs the Cubic Spline interpolation. Increasing the value will smooth an image greater.



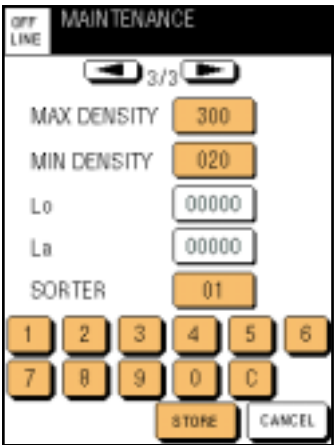
7	Does not perform the magnification interpolation. But prints out in the MAGNIFICATION setting. When you wish to change this setting, ask a service person.
---	--

(9) Select NEGA/POSI by touching [NEGA] or [POSI].

(10) Touch  on the upper part of the screen.
The print preference set screen (3/3) will appear.



(11) Touch the key on the right of the setting item, then touch the numeric keys to set the following items.
MAX DENSITY : Sets the maximum density of an image.
MIN DENSITY : Sets the minimum density of an image.
Lo : (Not used for the current version.)
La : (Not used for the current version.)
SORTER : Sets the bin in the sorter (option) into which the film is discharged.



(12) Touch [STORE].
The confirm screen will appear.
If the tray is not selected, the screen for selecting the tray in Step (2) will appear.

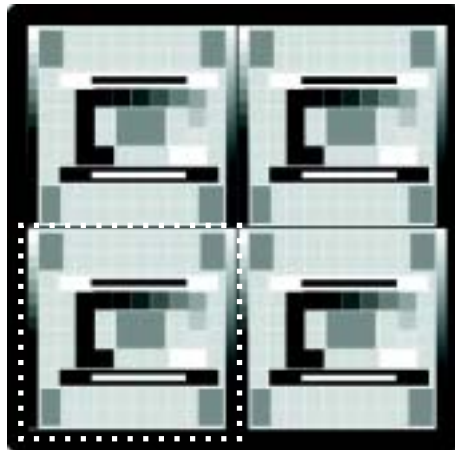
(13) Touch [OK].
The print data in the SMPTE pattern will be queued, and the maintenance menu screen will re-appear.
Touching [CONDITION SET UP] allows you to redo the print preference settings. (Steps (4) through (12))

(14) Touch [EXIT] to end the maintenance mode.
When the normal screen re-appears, the film in the selected tray is transported and the SMPTE pattern is printed out. Wait until printing is complete.

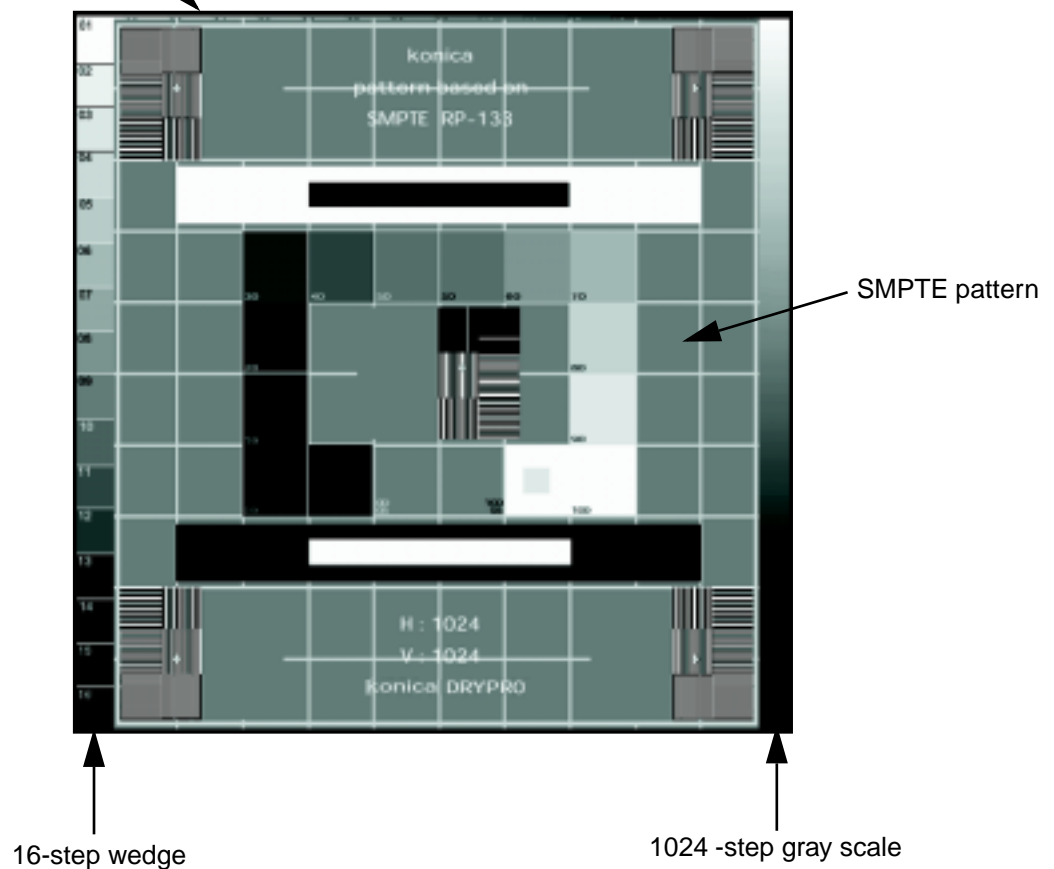


- How to control density

Each frame of the SMPTE pattern for this device which is printed out by TEST PRINT consists of 16-step wedge, SMPTE pattern, and 1024-step gray scale. Measure the density of the 16-step wedge or SMPTE pattern and use it for the density control.

**IMPORTANT**

- Use the SMPTE pattern for the density control.
- Do not use the calibration sheet that is printed with the CALIBRATION function on the maintenance menu for density control.
- The calibration sheet is the sampling data for the automatic density correction.

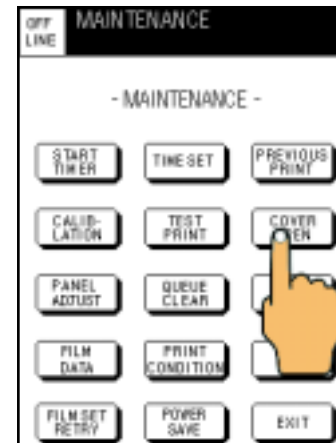


■ Opening/closing front cover (COVER OPEN)

When the front cover is required to open for some reasons including removing the film jams, follow the procedure below to open and close it.

- (1) Touch [COVER OPEN] on the maintenance menu screen.

The confirm message will appear.



- (2) Touch [OK].

The front cover will unlock after a while when the message of "NOW COVER OPENING PLEASE WAIT" appears.

- (3) Pull the left side of the front cover toward you to open it.

- (4) In order to close the front cover, press the upper and lower part of the front cover, and confirm that you hear a click.

While the front cover is open, the screen shown on the lower-right appears.

When the front cover is closed, the maintenance menu screen re-appears.



NOTE

The front cover has locks at the upper and lower parts of the left of the cover.



Screen for procedure
(Closing the front cover)

■ Adjusting control panel (PANEL ADJUST)

Follow the procedure below to adjust the contrast of the control panel and the brightness of the backlight.

If the response position to pressing is deviated from the key displayed on the control panel, the touch position also can be adjusted.

- Adjusting the contrast and the brightness of the backlight

- (1) Touch [PANEL ADJUST] on the maintenance menu screen.

The PANEL ADJUST screen will appear.



- (2) Touch [▲] / [▼] on the right of [LCD CONTRAST] to adjust the contrast of the LCD.

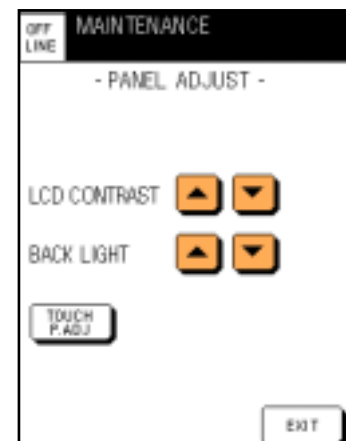
The contrast can be changed in 32 steps. Adjust the contrast so that you can easily see the LCD.

- (3) Touch [▲] / [▼] on the right of [BACK LIGHT] to adjust the brightness of the backlight.

The backlight can be changed in 20 steps. Adjust the brightness so that you can easily see the LCD.

- (4) Touch [EXIT].

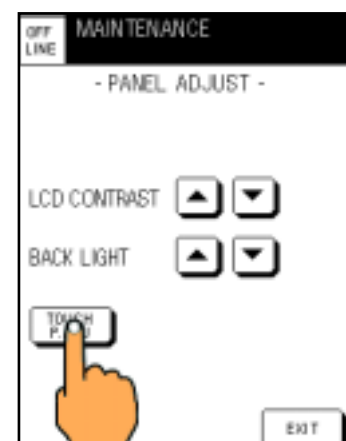
The maintenance menu screen will re-appear.



- Adjusting the touch position

- (1) In order to adjust the touch position, touch [TOUCH P.ADJ] on the PANEL ADJUST screen.

The touch position adjustment screen will appear.

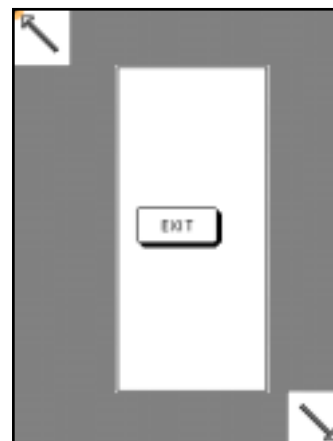


- (2) Touch the two corners (the position marked with "+") of the control panel.

When the touch positions are adequate, a beep sounds, then the adjustment is completed displaying [OK].

CAUTION

Do not touch the control panel strongly with a sharp pointed material such as a ball-pointed pen.

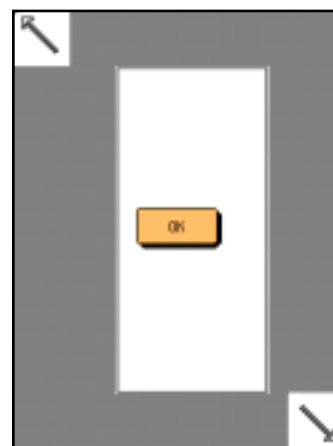


- (3) Touch [OK].

Touch position adjustment is completed, and the screen returns to the PANEL ADJUST screen.

CAUTION

When touching "+" on each corner, touch as close to the corner of the displayed area of the control panel as possible.
This enhances the accuracy.



■ Clearing queued print data (QUEUE CLEAR)

Follow the procedure below to delete the data queued in the device.

The print data can be cleared for each diagnostic device, or all the queued print data can be cleared.

Or only the data queued latest in which an error occurs can be cleared.

When [ALL CHANNEL QUEUE] is selected, the print data registered by PREVIOUS PRINT or TEST PRINT on the maintenance mode are also cleared.

Follow the procedure below to clear the queued print data.

- (1) Touch [QUEUE CLEAR] on the maintenance menu screen.

The QUEUE CLEAR screen will appear.

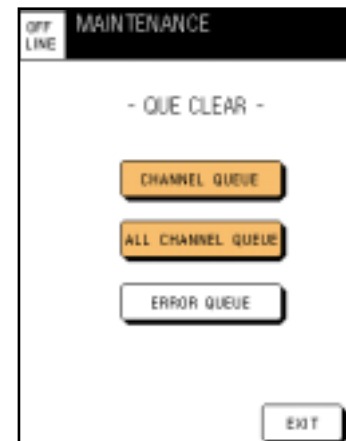


- (2) Touch [CHANNEL QUEUE] if you wish to clear the data from the selected diagnostic device, and touch [ALL CHANNEL QUEUE] if you wish to clear all the data queued for printing.

When you touched [CHANNEL QUEUE], the diagnostic device select screen (SCU SELECT) listing the names of the connected diagnostic devices will appear.

When you touched [ALL CHANNEL QUEUE] or [ERROR QUEUE], the confirm message for clearing will appear.

[ERROR QUEUE] should be used when [ERROR RESET] cannot be used on the normal screen. (Refer to [page 50](#).)



- (3) When you touched [CHANNEL QUEUE], touch the name of the diagnostic device from which the printing data to be cleared is received on the diagnostic device select screen.

The confirm message for clearing will appear.

When 10 or more diagnostic devices are connected, touch [▲] / [▼] before touching a diagnostic device name to scroll the list of the diagnostic device names.



(4) Touch [OK] on the confirm message.

When you touch [ALL CHANNEL QUEUE] on Step (2), all the printing data are cleared.

When you touched [CHANNEL QUEUE] in Step (2), the printing data sent from the diagnostic device selected in Step (3) are cleared.

If you wish to cancel deleting, touch [CANCEL].

CAUTION

- The amount of print data that can be registered in the device differs depending on the diagnostic devices and the data types.
- The total data that can be stored is about 200 to 400 pages received from all the connected diagnostic devices.
- When the data is full, the print data can no longer be received from the diagnostic devices.



■ COLD START

The COLD START function re-starts the device.

IMPORTANT

When the device is re-started by COLD START, all of the print data queued for printing and the saved data that has been already printed out will be deleted.

Follow the procedure below to re-start.

- (1) Touch [COLD START] on the maintenance menu screen.

The confirm message will appear.



- (2) Touch [OK].

The message of processing will appear, and the device will re-start.

All the queued print data that has not been printed and the saved data that has been already printed out will be deleted.



■ Confirming and setting film count data

The sum of film can be confirmed. The film count can be confirmed for each of days, weeks, and months. Also you can set the date on which the film is counted by week or by month.

- Confirming film count data

Follow the procedure below to confirm the film count.



- (1) Touch [FILM DATA] on the maintenance menu screen.

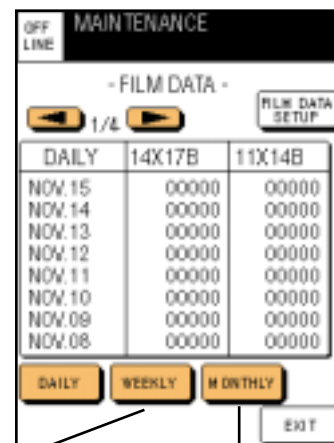
The film count data screen (FILM DATA) listing the film count data by date will be displayed.

The displayed count data is the preset two film data (DATA1, DATA2). For the details on how to set, refer to "Setting film count preference" on the next page.



- (2) Touch [WEEKLY] to display the film count data by week. In order to display the film count data by month, touch [MONTHLY].

Touching  on the upper part of the list will display the next page of the film count data. When touching , the previous page appears.



The image shows the 'FILM DATA' screen with the 'WEEKLY' tab selected. The table displays film counts for weekly intervals.

WEEKLY	14X17B	11X14B
NOV.04-10	00000	00000
OCT.28-03	00000	00000
OCT.21-27	00000	00000
OCT.14-20	00000	00000
OCT.07-13	00000	00000
SEP.30-06	00000	00000
SEP.23-29	00000	00000
SEP.16-22	00000	00000

Weekly film count

The image shows the 'FILM DATA' screen with the 'MONTHLY' tab selected. The table displays film counts for monthly intervals.

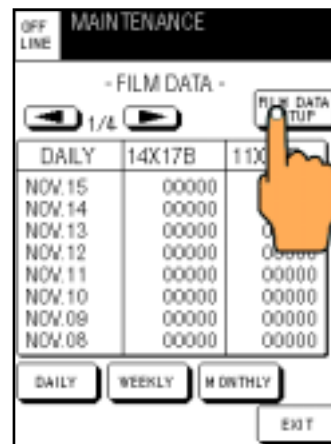
MONTHLY	14X17B	11X14B
2001.OCT	00000	00000
2001.SEP	00000	00000
2001.AUG	00000	00000
2001.JUL	00000	00000
2001.JUN	00000	00000

Monthly film count

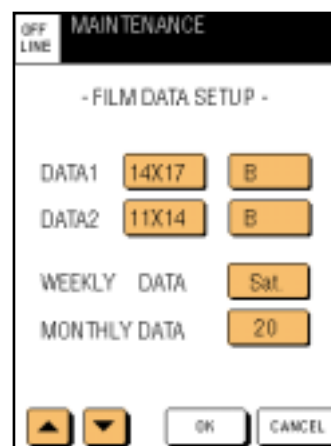
- Setting film count preference

Follow the procedure below to set the film count preferences.

- (1) Touch [FILM DATA SETUP] on the film count data screen.
The FILM DATA SETUP screen will appear.

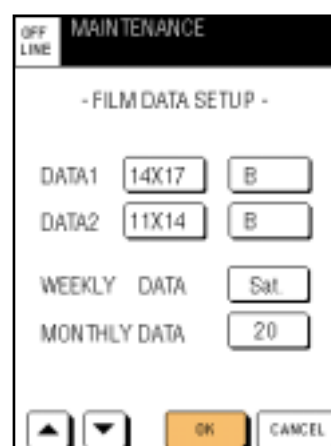


- (2) In order to set the film type for counting, touch [DATA1] or [DATA2] on the right of the film size key, then touch [▲] / [▼] on the lower part of the screen to display a desired film size.
- (3) Touch the film type on the right of the film size, then touch [▲] / [▼] to display a desired film type.
- (4) In order to set the date on which the data is counted by week, touch the key on the right of [WEEKLY DATA], then touch [▲] / [▼] on the lower part of the screen to display a desired date.
- (5) In order to set the date on which the data is counted by month, touch the key on the right of [MONTHLY DATA], then touch [▲] / [▼] on the lower part of the screen to display a desired date.
- (6) After the settings are complete, touch [OK].
The setting becomes valid, and the film count data screen re-appears.
If you wish to cancel the settings, touch [CANCEL].



CAUTION

- The time at which the film is count each day is fixed at 23:59:59.
- If you wish to set the date on which the film is counted to the end of the month, set 31 to [MONTHLY DATA]. On the month that ends earlier than 31st, the film will be counted on the final day of the month automatically.



■ Setting print preference

The print preferences are set for each of the diagnostic devices. Follow the procedure below to set the print preferences.

- (1) Touch [PRINT CONDITION] on the maintenance menu screen.

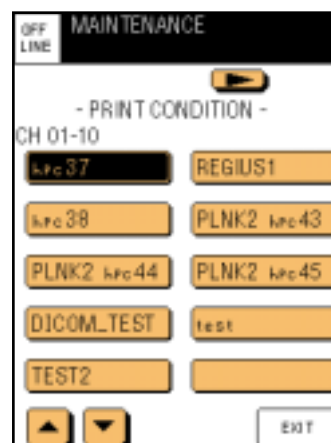
The print preference set screen (PRINT CONDITION) listing the name of the connected diagnostic devices will appear.




- (2) Touch a name of the diagnostic device for which the print preferences are set.

The selected diagnostic device name will be highlighted.

When 10 or more diagnostic devices are connected, touch [▲] / [▼] to scroll the list of the diagnostic device names.



- (3) Touch  on the upper part of the screen.

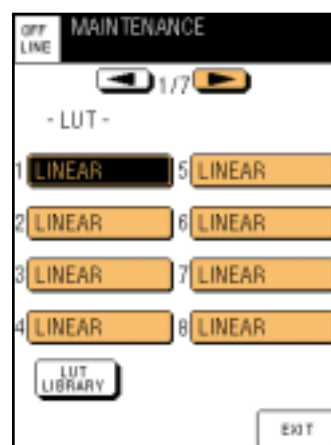
The LUT select screen (1/7) will appear.


- (4) Touch a LUT name you wish to apply for printing.

The selected user LUT name will be highlighted.

For the LUT to be applied on the diagnostic device, you can select one from 8 user LUTs.

It is necessary to copy and set the user own LUT or the LUT recommended by Konica. (Refer to "Setting user LUT" on [page 42](#).)



- (5) Touch  on the upper part of the screen.

The print preference set screen (2/7) will appear.

- (6) Touch the key on the right of the setting item, then touch [▲] / [▼] on the lower part of the screen to set the following items.

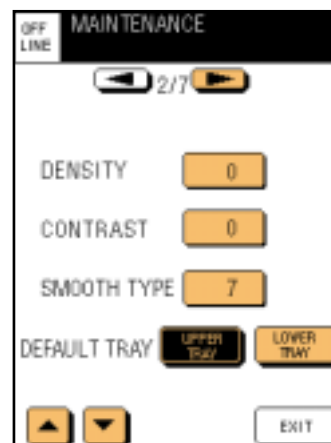
DENSITY : Adjust the density of an image.
 Selectable from -7 to 7.
 Setting a negative value will make the density lighter, and a positive value, darker.


CONTRAST : Adjust the contrast of an image.
 Selectable from -7 to 7.
 Setting a negative value will make the contrast lower, and a positive value, higher.

SMOOTH TYPE : Sets the smoothing type of an image.

SMOOTH TYPE	Settings
OFF	Does not perform the magnification interpolation.
1	Performs the Bilinear interpolation.
2-6	Performs the Cubic Spline interpolation. Increasing the value will smooth an image greater.
7	Does not perform the magnification interpolation. But prints out in the MAGNIFICATION setting. When you wish to change this setting, ask a service person.

DEFAULT TRAY : Sets whether the upper or lower tray is prioritized when the tray is not specified from the diagnostic device.



- (7) After the settings are complete, touch  on the upper part of the screen once.
 The print preference set screen (3/7) will appear.

- (8) Touch the key on the right of the setting item, then touch the numeric keys on the lower part of the screen to set the following items.


MAX DENSITY : Sets the maximum density of an image.

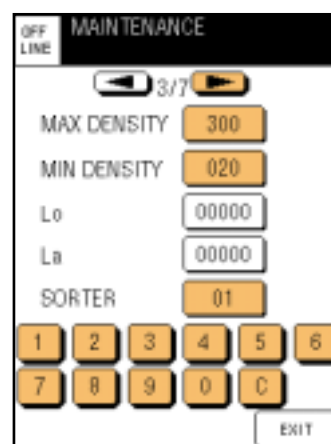
MIN DENSITY : Sets the minimum density of an image.

Lo : (Not used for the current version.)

La : (Not used for the current version.)

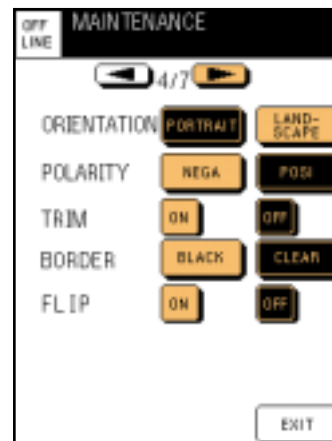
SORTER : Sets the bin in the sorter (option) into which the film is discharged.


- (9) After the settings are complete, touch  on the upper part of the screen once.
 The print preference set screen (4/7) will appear.



- (10) Touch the key on the right of the setting item, then set the following items.

ORIENTATION : Sets the direction of an image.
 PORTRAIT : An image is in the portrait orientation.
 LANDSCAPE : An image is in the landscape orientation.
 POLARITY : Selects the negative or positive of an image.
 TRIM : Selects whether or not to trim an image.
 BORDER : Selects a border color.
 BLACK
 CLEAR
 FLIP : Sets whether or not to enhance characters.
 ON : Enhances characters.
 OFF : Does not enhance characters.



- (11) After the settings are complete, touch  on the upper part of the screen once.

The print preference set screen (5/7) will appear.

- (12) Select the item to be printed as the stamp with [STAMP SELECT].

The item displayed in the highlighted key will be printed as the stamp.


- (13) If you select [STAMP MESSAGE] in Step (12), touch the frame under [STAMP MESSAGE], then input the message to be printed as the stamp.

The keypad screen for inputting characters will appear.
 The screen on the right shows the example of characters to be input.



- (14) Select the position at which the stamp is printed with [STAMP DIRECTION].

Selects the position at which the stamp is printed from the four keys. The stamp will be printed at the position of the line displayed in the highlighted key.

- (15) After the settings are complete, touch  on the upper part of the screen once.

The print preference set screen (6/7) will appear.

- (16) Sets the format of date to be printed on the film.

YEAR FORMAT :

Selects the format of year.

YY : Last two figures

YYYY : All four figures

MONTH FORMAT:

Selects the format of month.

TEXT : Character display

NUMERIC : Numeric display

DATESTAMP FORMAT:

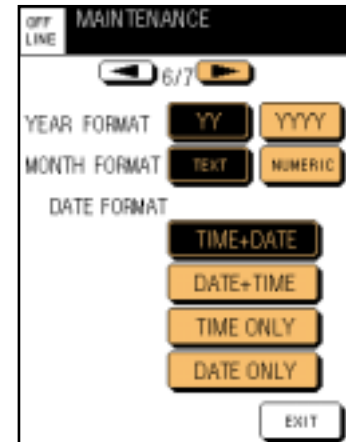
Selects the format of date/time.


TIME+DATE

DATE+TIME

TIME ONLY

DATE ONLY



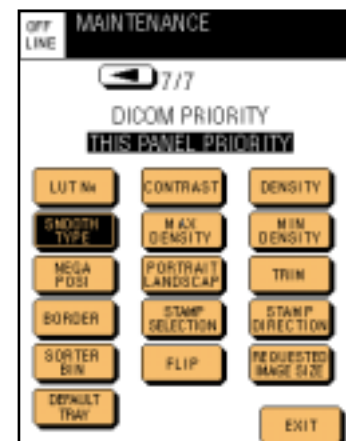
- (17) After the settings are complete, touch  on the upper part of the screen once.

The print preference set screen (7/7) will appear.

- (18) Set whether the settings in the diagnostic device is prioritized or the settings in the DRYPRO is prioritized when the stamp and the print preferences are sent from the diagnostic devices.

Each time you press the key, it will be highlighted and displayed in normal.

The print preferences set in this device are prioritized for the item displayed in the highlighted key.



- (19) After the settings are complete, touch [EXIT].

The message asking whether or not to save the settings appears.

- (20) Touch [OK].

The setting becomes valid, and the maintenance menu screen re-appears.

If you wish to cancel the settings, touch [CANCEL].



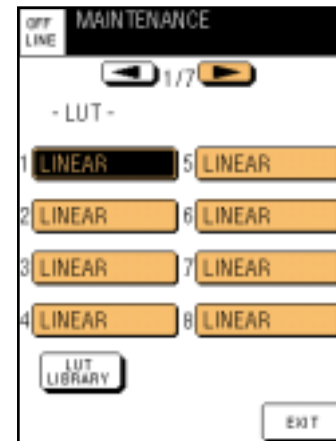
- **Setting user LUT**

This device has LUTs recommended by Konica which are suitable for each type of diagnostic devices as a library. By copying the LUT registered with the library to the user LUT in advance, it can be applied for the connected diagnostic device.

Follow the procedure below to set the user LUT.

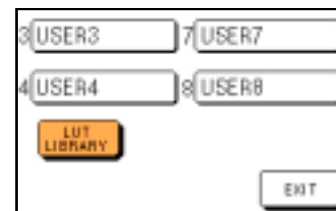
- (1) Touch the user LUT name to be set on the LUT select screen.

The selected user LUT name will be highlighted.
Up to 8 kinds of user LUTs can be set.



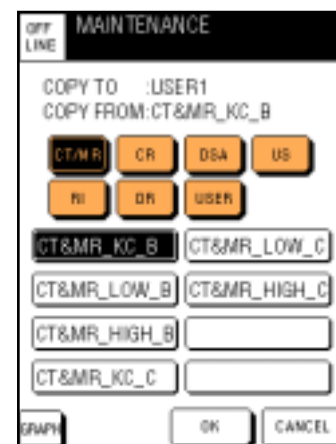
- (2) Touch [LUT LIBRARY].

The LUT copy screen will appear.



- (3) Select the type of the diagnostic device from the seven keys on the upper part of the screen.

The name of the LUT that is suitable for the selected diagnostic device appears on the eight keys displayed on the lower part of the screen.



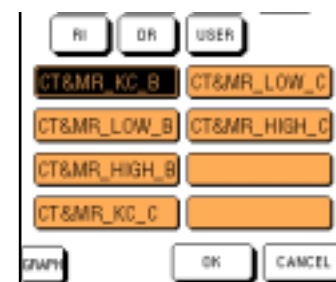
- (4) Touch the name of the LUT to be applied.

The selected LUT name will be highlighted.

- (5) Touch [OK].

The LUT information selected in Step (4) will be copied on the user LUT selected in Step (1), then the LUT select screen will appear.

Touching [GRAPH] will allow you to confirm a graph of the selected LUT curve. (Refer to [page 44.](#))

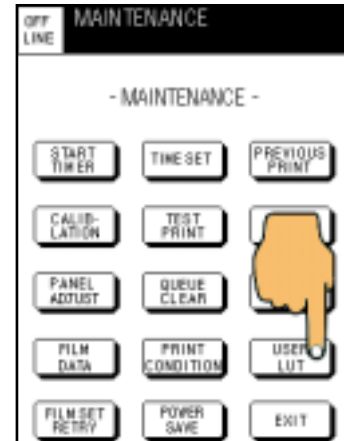


■ Creating user LUT

Although this device has the LUT that is suitable for the diagnostic device at shipping, you also can create user's own LUT by inputting the LUT characteristics. Follow the procedure below to create the user LUT.

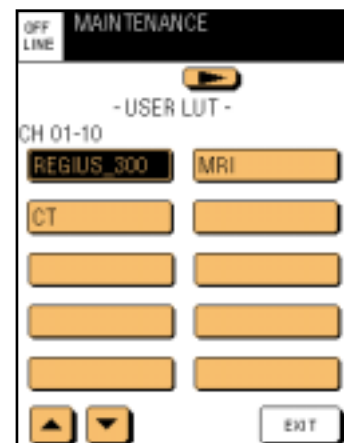
- (1) Touch [USER LUT] on the maintenance menu screen.

The user LUT create screen (USER LUT) listing the name of the connected diagnostic devices will appear.



- (2) Touch a name of the diagnostic device on which the user LUT is applied.

The selected diagnostic device name will be highlighted.
When 10 or more diagnostic devices are connected, touch [▲] / [▼] to scroll the list of the diagnostic device names.



- (3) Touch [▶] on the upper part of the screen.

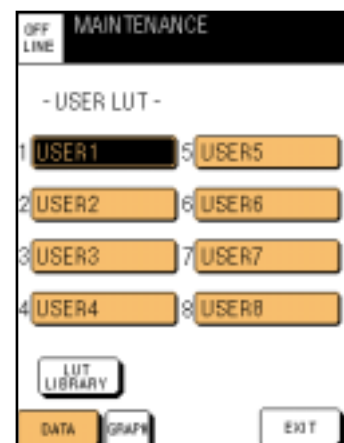
The user LUT select screen will appear.

- (4) Touch a LUT name you wish to apply on the diagnostic device.

The selected LUT name will be highlighted.

- (5) Touch [DATA] on the lower part of the screen.

The LUT data screen (next page) will appear.
By touching [LUT LIBRARY] instead of [DATA], the user LUT can be set using the LUT in the library stored in this device. (Refer to "Setting user LUT" on [page 42](#).)



On the LUT data screen, the values (density x 100) of 16 points of the LUT curve are displayed.

When inputting the digital value of the LUT data (12-bit digital value converted from the density of each point: 0000 - 4095), touch [DIGITAL] on the lower part of the screen. The digital data of 16 points of the LUT curve will appear.

Touching [GRAPH] will allow you to confirm a graph of the selected LUT curve.

- (6) Touch [EDIT] on the LUT data screen.

The LUT data input screen (DENSITY) will appear.

OFF LINE MAINTENANCE			
01(	020	) 09(	169
02(	039	) 10(	188
03(	057	) 11(	207
04(	076	) 12(	225
05(	095	) 13(	244
06(	113	) 14(	263
07(	132	) 15(	281
08(	151	) 16(	300
D MAX:300		DM IN:020	
<div>EDIT</div>			
DIGITAL	DENSITY	GRAPH	<div>OK</div>

- (7) Touch the value of the point to be changed, and enter a value with the numeric keys on the lower part of the screen.

By touching [DIGITAL] / [DENSITY] on the lower part of the screen, you can input the digital value of the density or the density value (density x 100).

- (8) After the settings are complete, touch [OK].

The setting becomes valid, and the user LUT select screen re-appears.

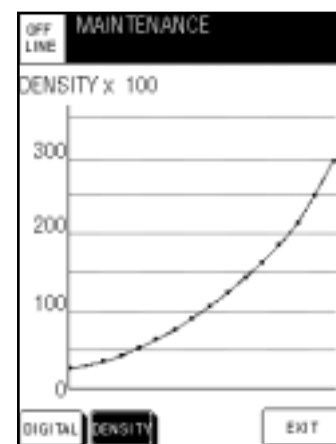
If you wish to cancel the settings, touch [CANCEL].

OFF LINE MAINTENANCE			
01(	020	) 09(	169
02(	039	) 10(	188
03(	057	) 11(	207
04(	076	) 12(	225
05(	095	) 13(	244
06(	113	) 14(	263
07(	132	) 15(	281
08(	151	) 16(	300
1	2	3	4
5	6	7	8
9	0	C	GRAPH
DIGITAL	DENSITY	OK	CANCEL

• Confirming the LUT curve

Of the screens of "USER LUT" and "PRINT CONDITION", the screen for selecting or creating the LUT can display the graph showing the characteristics of the LUT being selected or created by touching [GRAPH] displayed on the screen.

- On the graph display screen, touching [DIGITAL] or [DENSITY] switches between the digital value and the density value (density x 100) for showing the vertical axis of the graph.
- Touching [EXIT] on the graph display screen will return to the original screen.
- The graph display screen only allows you to confirm the LUT curve. You cannot edit the LUT displayed on the screen.



■ Setting power saving mode

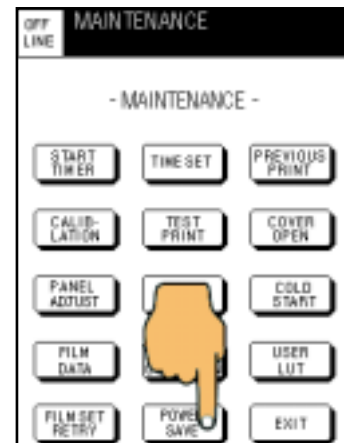
The DRYPRO has the power saving mode that saves power consumption automatically after no data is printed for a specified time.

The power saving mode has two kinds of settings: [TOUCH PANEL POWER SAVE] for let the backlight of the control panel fade out, and [HEAT ROLLER POWER SAVE] for lowering the temperature in the HPRO.

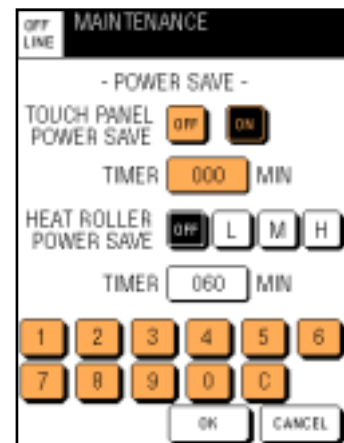
Follow the procedure below to set the power saving mode.

- (1) Touch [POWER SAVE] on the MAINTENANCE MENU screen.

The power save set (POWER SAVE) screen will appear.



- (2) In order to let the backlight of the control panel fade out, touch [ON] on the right of [TOUCH PANEL POWER SAVE].
- (3) Touch the key on the right of [TIMER], then touch the numeric keys on the lower part of the screen to set the time (minute) to go into the power saving mode.



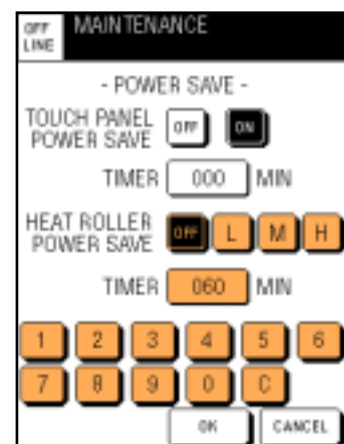
- (4) In order to save power consumption in the HPRO section, touch [L], [M], or [H] on the right of [HEAT ROLLER POWER SAVE].

[L], [M], or [H] shows the temperature in the HPRO section in the power saving mode. [L] means that the temperature is the lowest, and [M] means it is medium, and [H] means it is the highest.

CAUTION

If you set the temperature to low, the power consumption can be saved much in the power saving mode. However it takes longer for the DRYPRO to exit from the power saving mode and go into the READY status.

The recovering time period is about 10 minutes when [L] is set, 6 minutes when [M] is set, and 3 minutes when [H] is set.



- (5) Touch the key on the right of [TIMER], then touch the numeric keys on the lower part of the screen to set the time (minute) to go into the power saving mode.
- (6) After the settings are complete, touch [OK].
The setting becomes valid, and the maintenance menu screen re-appears.
If you wish to cancel the settings, touch [CANCEL].

5. Troubleshooting

5-1. Error Display and Remedy

When an error occurs in the device, the error code and the description are displayed on the message column on the control panel.



The following shows the errors and the remedies displayed in this device.

Error Code	Description	Remedy
E4A20 E4A21	The front cover is open.	Close the front cover.
E4110 E4112	The film cannot be sent from the upper tray.	<ul style="list-style-type: none">• Pull out the upper tray, and remove jammed film. (Refer to page 53.)• When a film jam occurs when loading the film, load the film again. (Refer to page 61.)
E4126	The upper tray is open.	Close the upper tray.
E4210 E4212	The film cannot be sent from the lower tray.	<ul style="list-style-type: none">• Pull out the lower tray, and remove film jam. (Refer to page 53.)• When a film jam occurs when loading the film, load the film again. (Refer to page 61.)
E4226	The lower tray is open.	Close the lower tray.
E4111 E4113 E4211 E4213 E4310 E4311 E4312 E4410 E4411	The film cannot be sent from the descent transport section. Film jams occur between the descent transport section and the exposure section.	Open the front cover, and remove a jammed film. (Refer to page 54 .)
E4510	The film cannot be sent from the elevator transport section. Film jams occur between the exposure section and the elevator transport section.	Open the front cover, and remove a jammed film. (Refer to page 55 .)
E4511 E4610 E4611 E4710	Film remains in the HPRO (heat processing) section. Film jams occur in the HPRO (heat processing) section.	Open the front cover, and remove jammed film. (Refer to page 56 .)
E4120 E4220 E4A22	No FILTER exists. FILTER cannot be detected.	Place FILTER. Place FILTER in the specified place correctly. (Refer to page 66 .)
E4810 E4811	Film remains in the sorter basket.	Remove the film from the inlet of the sorter. (Refer to page 58 .)
E4812 E4820	The sorter cover is open.	Close the sorter cover.

CAUTION

If an error that is not described in the previous page (Exxxx error or Fxxxx error) occurs, reset the error by following "5-2. Resetting Errors".

If the same error is displayed repeatedly after error reset, touch [OPERATION OFF] to turn the power OFF, and contact a service person. Do not turn off the breaker.

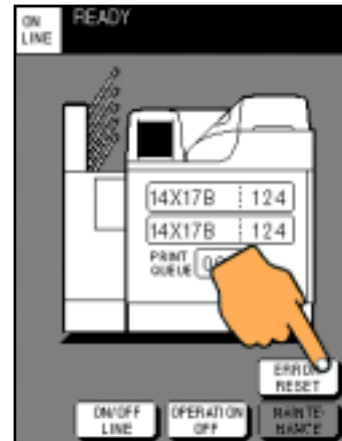
When an abnormal sound or smoke occurs from this device, immediately turn off the breaker of the device, and unplug the power cable, and contact a service person.

5-2. Resetting Errors

When an error occurs in this device, [ERROR RESET] appears as well as the error message.

After troubleshooting the errors according to the error messages, touch [ERROR RESET] to reset the error display.

- When a film jam error occurs, each key appears depending on the locations in which a film jam occurs.
(For removing film jams, refer to [page 52](#).)



The screen shown on the lower-right appears, then returns to the normal screen.



■ When an error cannot be reset

If an error cannot be reset even by touching [ERROR RESET] for some reasons, or an error persists even after resetting, follow the procedure below.

- Clearing queued errors

By clearing the latest queued error, [ERROR RESET] may be activated.

- (1) Touch [QUEUE CLEAR] on the maintenance menu screen.

The QUEUE CLEAR screen will appear.



- (2) Touch [ERROR QUEUE].

The confirm message will appear.



- (3) Touch [OK] on the confirm message.

The latest queued error is cleared.

When the normal screen re-appears, [ERROR RESET] may be activated.



- **Re-starting**

If [ERROR RESET] cannot function by clearing a queued error, follow the procedure below to re-start the device.

When the device has started up with START TIMER function, clear START TIMER before re-starting the device.

- (1) Press the start switch to turn the power of the device OFF.
- (2) Press the start switch again to re-start the device.

IMPORTANT

- When the touch panel does not function for some reasons, re-start the device with the same procedure.
- When the error display persists even though turning the power OFF/ON, press the start switch to shut down the device, and contact a service person.

5-3. Removing Jam

When film jams occur during print, the error code and the description showing the details on the jam are displayed on the message column. [TRAY OPEN], [COVER OPEN], or [SORTER COVER] is displayed on the screen at the same time.

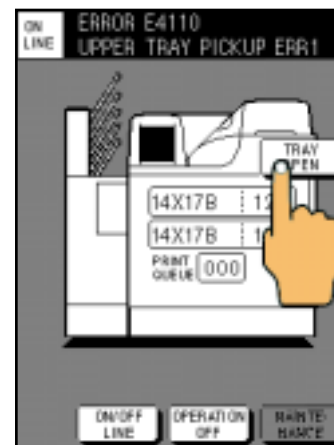
- When [TRAY OPEN] is displayed;

Touch [TRAY OPEN] to open the tray.

The screen on the right shows an example where a film jam occurs in the upper tray.

The message of TRAY OPEN appears, then the tray pops out slightly.

When the tray pops out, the procedure of removing a jammed film is displayed on the control panel.



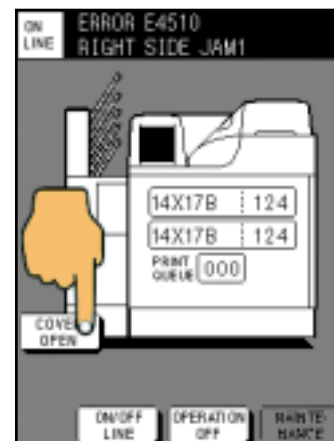
- When [COVER OPEN] is displayed;

Touch [COVER OPEN] to open the front cover.

The screen on the right shows an example where a film jam occurs between the exposure section (sub-scanning unit) and the elevator transport section.

The front cover will unlock after the message showing COVER OPEN appears.

When you open the front cover, the procedure of removing a film jam for each location is displayed on the control panel.

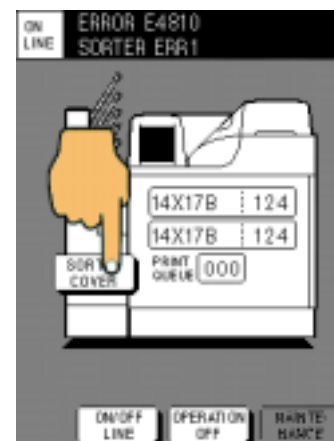


- When [SORTER COVER] is displayed;

Touch [SORTER COVER].

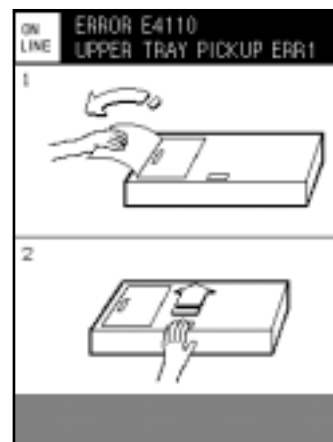
The screen on the right shows an example where a film jam occurs in the sorter.

After displaying the message for opening the sorter cover, the procedure of removing the sorter cover appears on the control panel.



■ Jam in tray

The screen on the right shows an example where the film cannot be transported from the tray and it jams. Follow the procedure below to remove the jammed film.

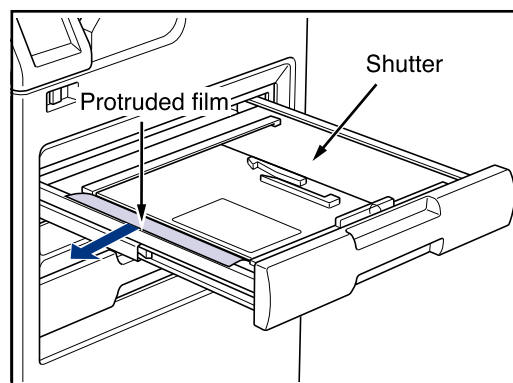


- (1) If the film is protruded from the shutter of the tray, pull the film out to remove.

CAUTION

When pulling out the film, do not open the shutter of the tray. otherwise, the film in the tray is solarized.

If the film is not protruded, shake the tray backward and forward several times.



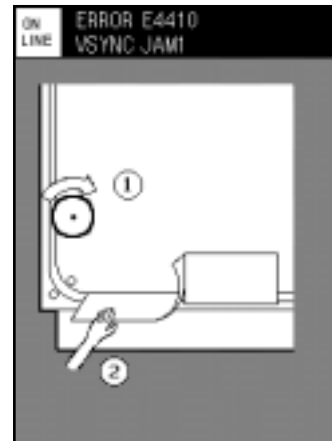
- (2) Press in the tray until it locks.

The normal screen will re-appear after a while when the message of "PLEASE WAIT" appears.

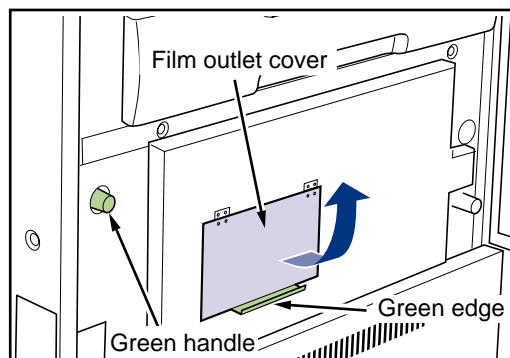
When there queued print data remains, printing starts automatically.

■ Film jam between decent transport section and exposure section

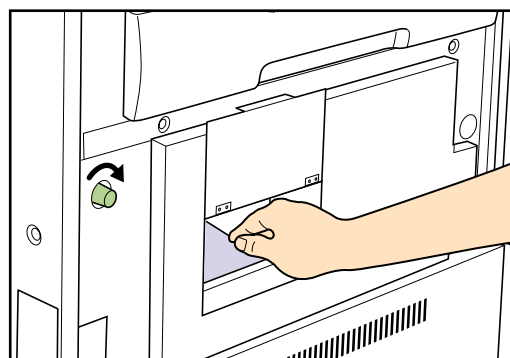
The screen on the right shows the example where a film jam occurs between the decent transport section and the exposure section (the subscan unit). Follow the procedure below to remove the jammed film.



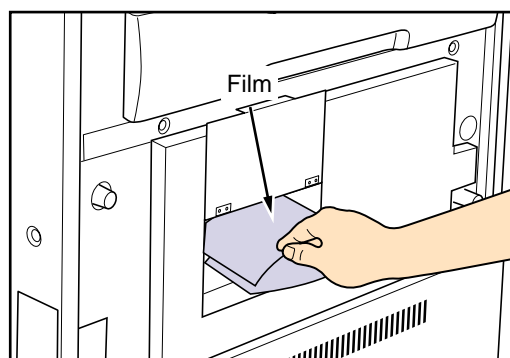
- (1) Lift the film outlet cover on the front-lower part of the device to open by lifting the green handle.
Opening the cover to an upright position fixes it with magnets.



- (2) Turn the green handle located on the front-left until the leading edge of film can be seen in the film outlet.
The film in the descent transport section is transported to the position control section.



- (3) While turning the handle clockwise, put your hand from the film outlet and fold the edge of the film back.
- (4) When the trailing edge of the film removes from the transport roller, take out the film from the film outlet.



- (5) Close the film outlet cover and then the front cover.
The normal screen will re-appear after a while when the message of "PLEASE WAIT" appears.
When there queued print data remains, printing starts automatically.

CAUTION

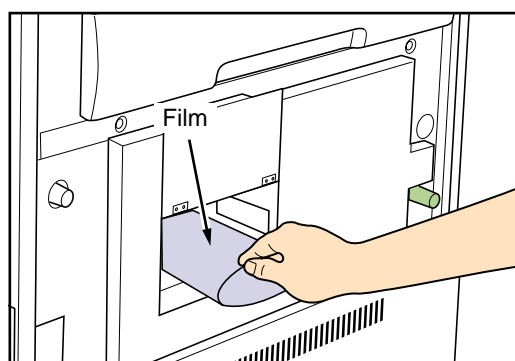
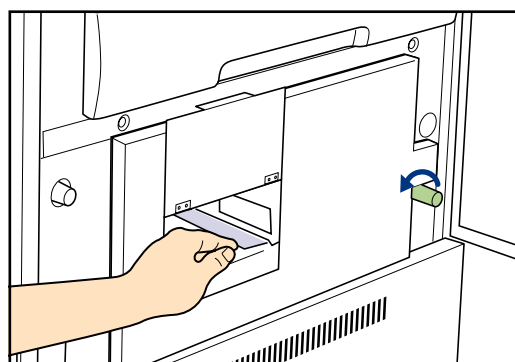
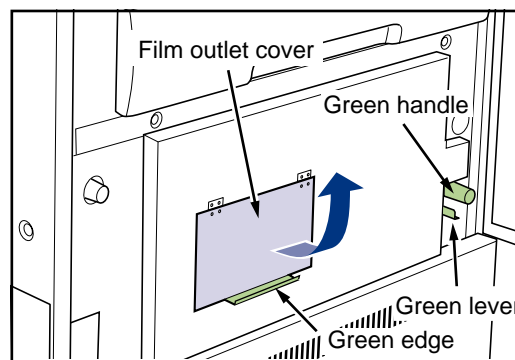
The front cover cannot be closed with the film outlet cover open. If you find it difficult to close the front cover, check that the film outlet cover is closed.
Do not close the front cover forcibly.

■ Film jam between exposure section and elevator transport section

The screen on the right shows the example where a film jam occurs between the elevator transport section and the exposure section (the subscan unit). Follow the procedure below to remove the jammed film.



- (1) Lift the film outlet cover on the front-lower part of the device to open by lifting the green handle.
Opening the cover to an upright position fixes it with magnets.
- (2) Press the green lever on the lower-right of the front device rightward until it is locked.
- (3) Turn the green handle on the lower-right of the front device counterclockwise.
The film in the elevator transport section will return to the subscan unit.
- (4) When the film can be seen in the subscan unit, put your hand from the film outlet.
- (5) While turning the handle further, fold the edge of the film back.
- (6) When the film comes out of the subscan unit completely, remove it from the film outlet.
- (7) Close the film outlet cover and then the front cover.
The normal screen will re-appear after a while when the message of "PLEASE WAIT" appears.
When there queued print data remains, printing starts automatically.



CAUTION

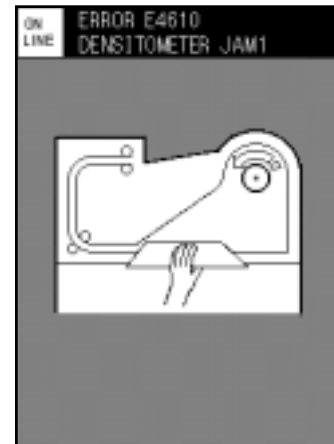
The front cover cannot be closed with the film outlet cover open. If you find it difficult to close the front cover, check that the film outlet cover is closed.
Do not close the front cover forcibly.

■ Film jam between HPRO section and cooling/discharge section

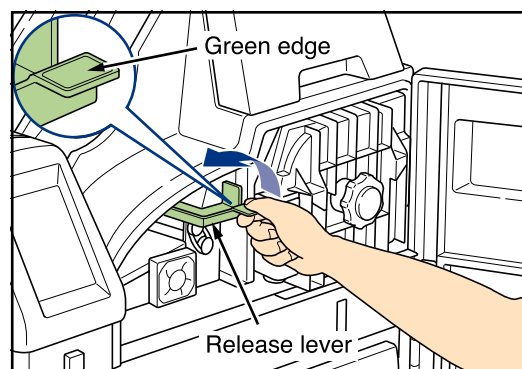
The screen on the right shows the example where a film jam occurs between the HPRO section (in the HPRO unit cover) and the cooling/discharge section. Follow the procedure below to remove the jammed film.

Caution on High Temperatures

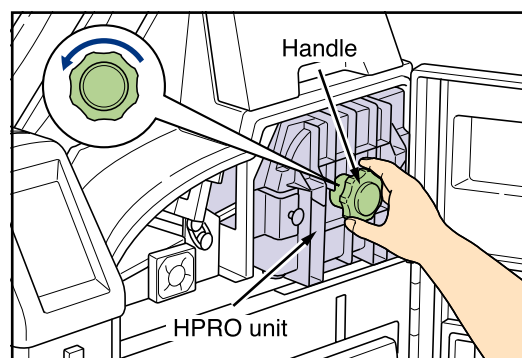
The temperature around the HPRO section and the cooling/discharge section may reach 80 °C (176 °F) or over. Before removing the jammed film, allow those sections to cool off.



- (1) Hold the green handle of the release lever and raise it leftward.



- (2) Turn the handle on the HPRO unit cover counter-clockwise.
The film in the HPRO unit cover is transported into the cooling / discharge section.

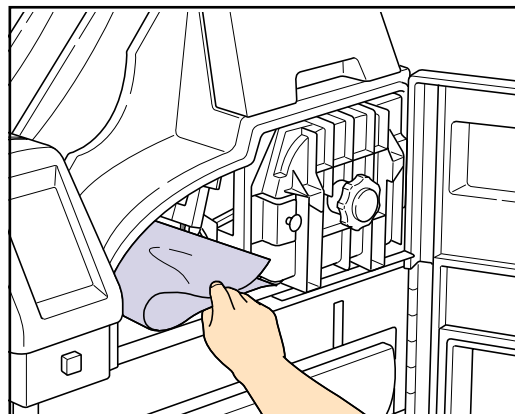


- (3) While turning the handle further, put your hand into the discharge section and fold the edge of the film back.

Caution on High Temperatures

The temperature around the HPRO section and the cooling/discharge section may reach 80 °C (176 °F) or over. Before removing the jammed film, allow those sections to cool off.

- (4) When the film comes out of the HPRO unit cover completely, remove it from the cooling/discharge section.



- (5) Tilt the release lever rightward.

- (6) Close the front cover.

The normal screen will re-appear after a while when the message of "PLEASE WAIT" appears.

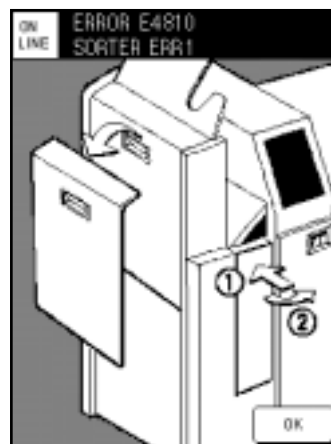
When there queued print data remains, printing starts automatically.

CAUTION

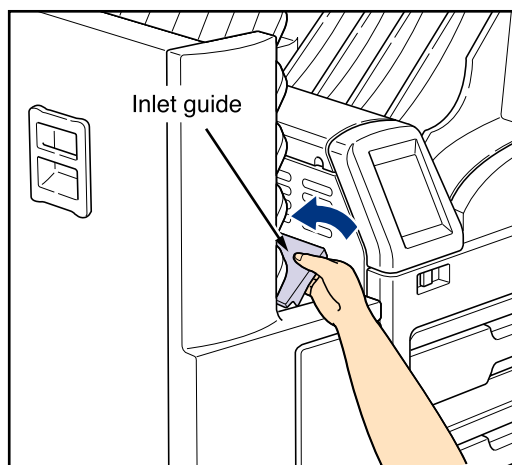
The front cover cannot be closed with the release lever raised. If you find it hard to close the front cover, check the position of the release lever. Do not close the front cover forcibly.

■ Film jam in sorter

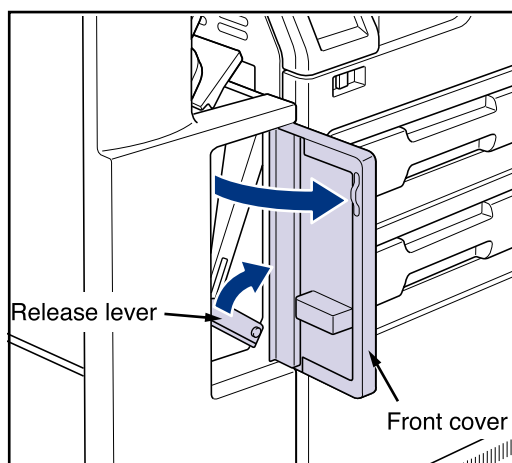
The screen on the right is an example where a film jam occurs in the sorter. Follow the procedure below to inspect each part of the sorter and remove a jammed film.



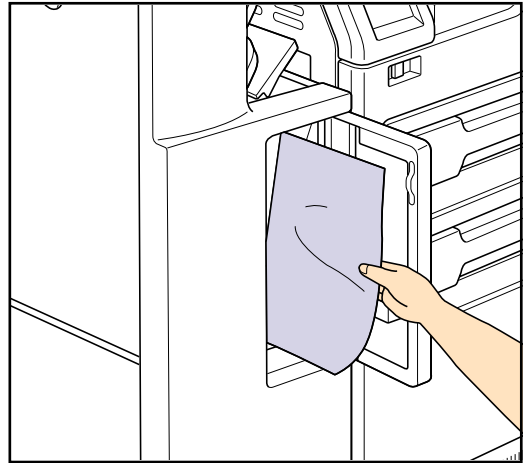
- (1) Open the inlet guide, and remove jammed films if there are any.



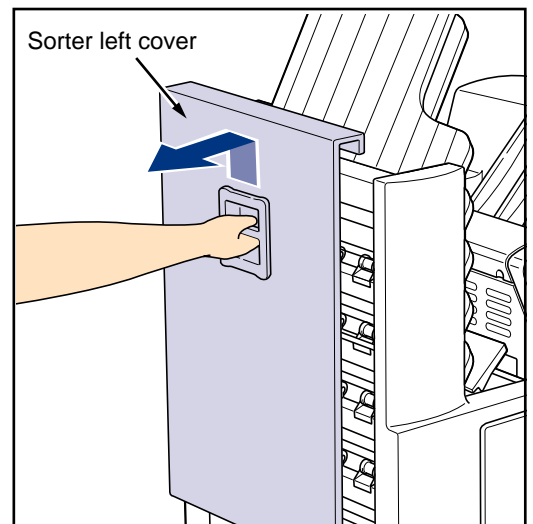
- (2) Open the front cover of the sorter, and lift the release lever rightward.



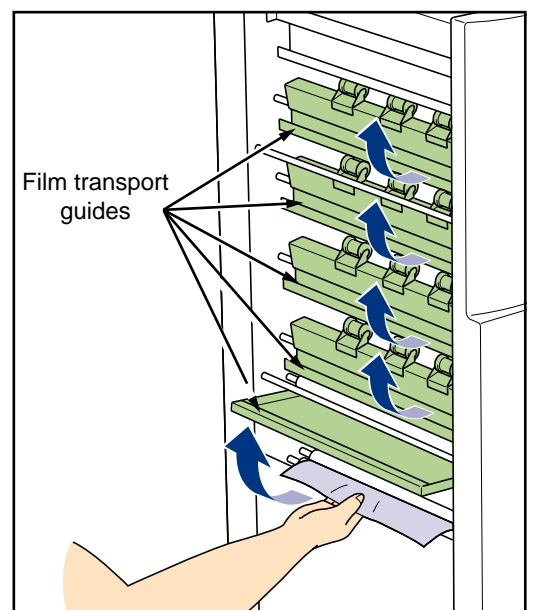
- (3) Remove jammed films if they remain.



- (4) Lift the handle of the sorter left cover to remove it.



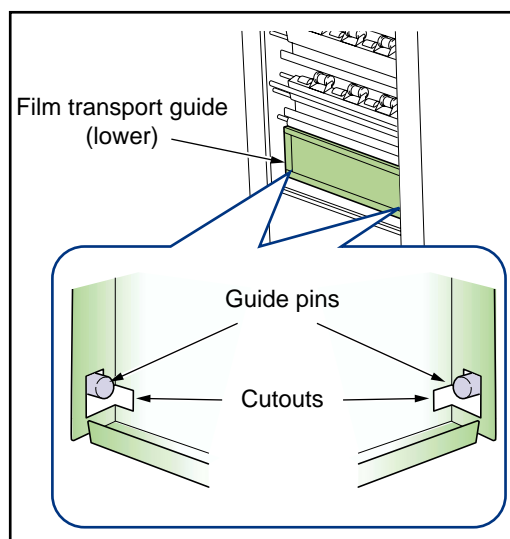
- (5) Open the film transport guide, and remove jammed films if they remain.



- (6) Put the film transport guide back, and remove the sorter left cover.

CAUTION

When you put the film transport guide back to the original position, lift the film transport guide (lower) once, and hook the cutout at both ends of the lower guide board on the guide pins as shown in the figure on the right.



5-4. When Film Fails to be Loaded

When error codes (E4110, E4210) and [TRAY OPEN] are displayed when a new film is loaded (in printing calibration pattern), there is a possibility that the film package may fail to be taken up.

Follow the procedure below to re-load the film.

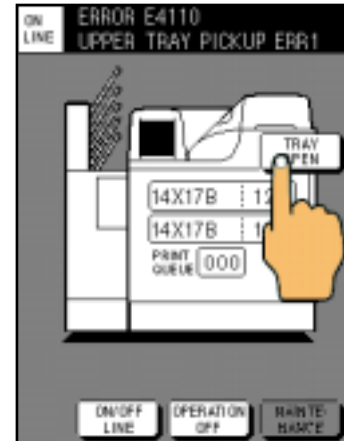
- (1) Touch [TRAY OPEN] to open the tray.

CAUTION

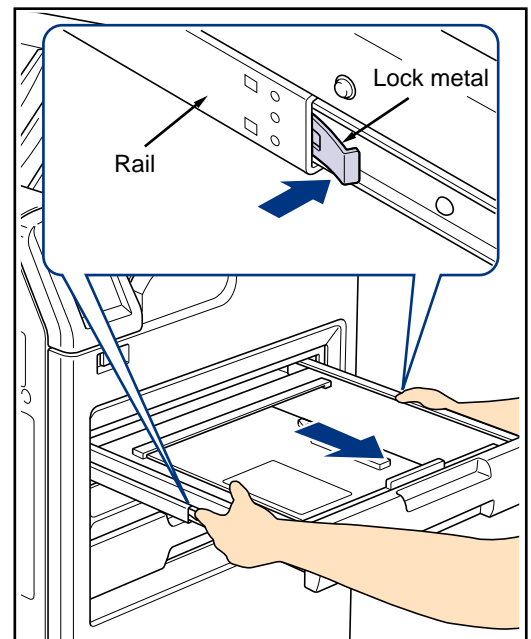
When the gear of the motor for taking up the package and the gear of the tray do not move in firm mesh, the tray may not open automatically even by touching [TRAY OPEN].

In this case, follow the procedure below to pull out the tray.

1. Touch [ON/OFF LINE] to switch the device into OFF LINE.
2. Touch [MAINTENANCE] to display the maintenance menu screen.
3. Touch [COVER OPEN] to open the front cover.
4. Hold the tray with both hands and pull out it toward you.

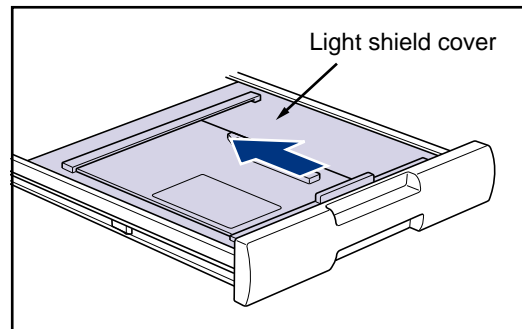


- (2) Pull out the tray as far as it goes.
- (3) Pull out the tray from the rail while pressing the lock metal at both sides of the tray.
- (4) Carry the removed tray to a dark room.
Perform the procedure till Step (8) in a dark room.

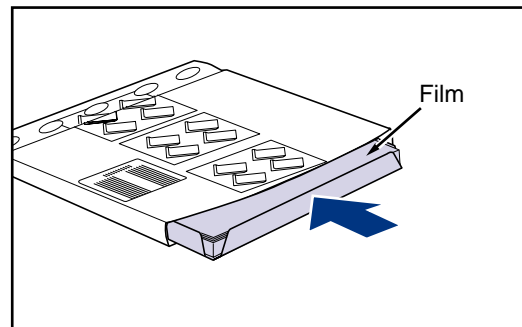


(5) Open the light shield cover of the tray.

(6) Remove the film with the package from the tray.



(7) Push the film and resin tray to the back of the package.

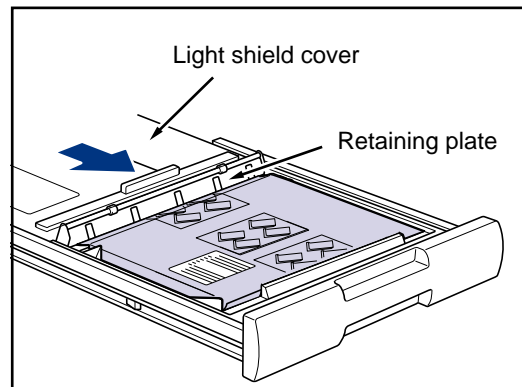


(8) Insert the trailing edge of the package between the retaining plate and the taking-up shaft in the same manner as that of loading the film, and close the light shield cover completely.

After closing the light shield cover, carry the tray out of a dark room.

(9) Put the tray back to the rail of the main unit, and press in the tray until it locks.

The normal screen will re-appear after a while when the message of "PLEASE WAIT" appears.



(10) Touch [ON/OFF LINE] to switch into OFF LINE.

(11) Touch [MAINTENANCE] to display the maintenance menu screen.

(12) Touch [FILMSET RETRY].

The message for selecting the tray will appear.



- (13) Touch the key of the tray in which you wish to re-load the film.
The confirm message will appear.



- (14) Touch [OK].



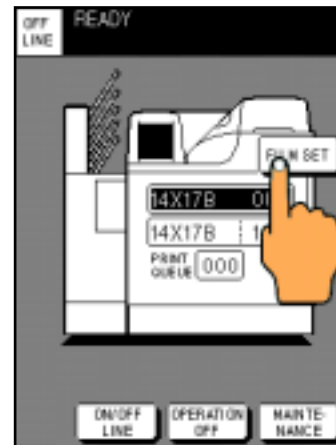
- (15) Touch [EXIT] to end the maintenance mode.
When the normal screen re-appears, the number of film in the selected tray resets 0, being film empty.



(16) Touch [FILM SET].

(17) When the tray pops out slightly, press in it until it locks.

After that, the film data is read in the same manner as normal film loading and the calibration pattern is printed out.



6. Service and Maintenance

6-1. Periodical Maintenance and Inspection

In order to keep the device working at its optimum performance, perform the following service and maintenance periodically.

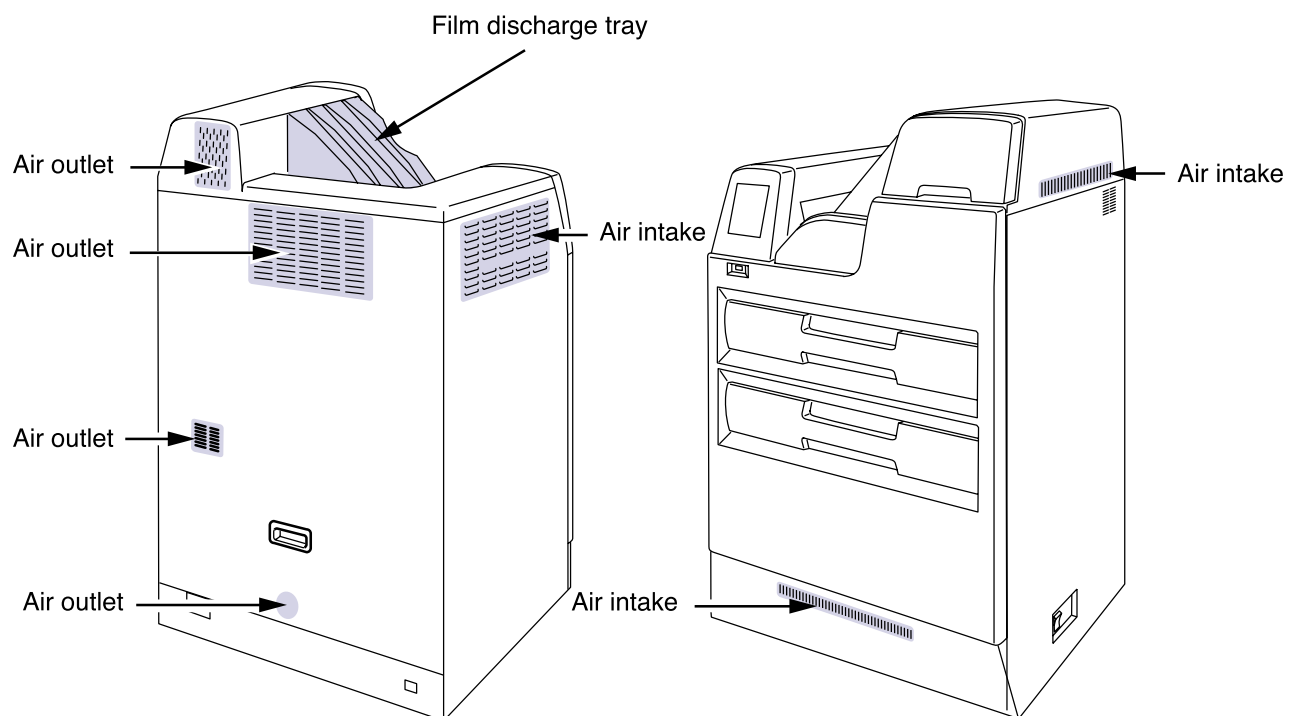
■ Outer cover of the main unit

Film discharge tray

Dust tends to settle on the inner side of the film discharge tray, and may cause scratches on the film.
Clean the tray with a dry cloth or a vacuum cleaner once a month.

Air intake / Air outlet

Vacuum the air outlet once six months.



■ Inside of main unit

Tray

Make sure that the inside of the tray is always clean.
Clean the tray with a dry cloth or a vacuum cleaner each time a new film package is loaded.

6-2. Replacing FILTER

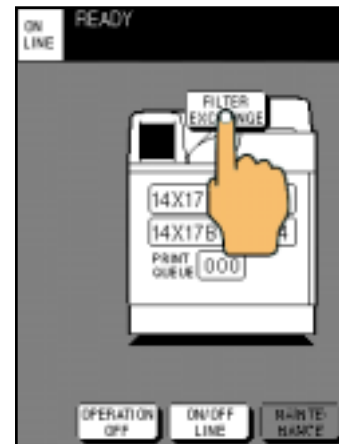
[FILTER EXCHANGE] will be displayed on the control panel **6 months** after the last replacement or after **10,000 prints**.

Follow the procedure below to replace the FILTER.

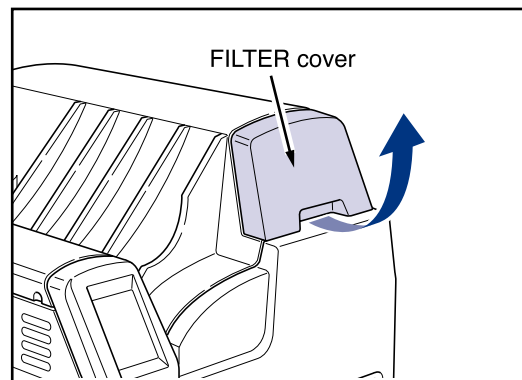
- (1) Touch [FILTER EXCHANGE] on the control panel.
The procedure for replacing the FILTER appears on the control panel.

CAUTION

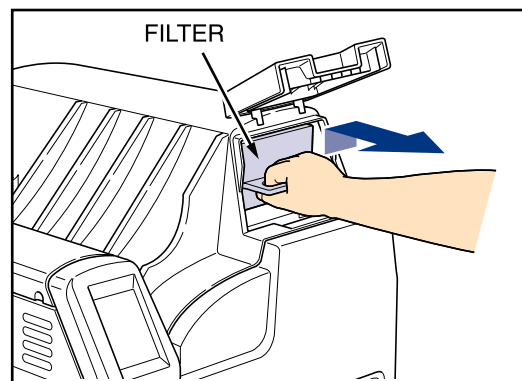
Before replacing the FILTER, be sure to touch [FILTER EXCHANGE].



- (2) Open the FILTER cover upward.



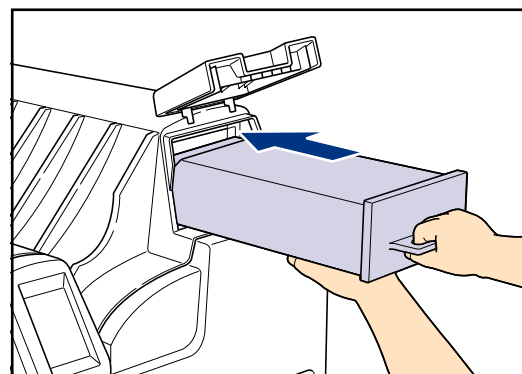
- (3) Hold the handle of the FILTER and lift it slightly.
Note that the FILTER is placed in the lower position.



- (4) Pull out the FILTER.

Caution on High Temperatures

The temperature around the FILTER may reach 60 °C (140 °F) or over. So, be very careful of handling it.



- (5) Insert a new FILTER to the back.

- (6) Lower the FILTER into the specified position.

- (7) Close the FILTER cover.

CAUTION

The device has the sensor to detect the presence/absence of the FILTER. If the FILTER fails to be lowered into the specified place, the installation of the FILTER is not detected.

6-3. Service and Maintenance Schedule

■ Servicing by a user

Service and maintenance	Cycle	One week	First month	Third month	Sixth month	12th month
Cleaning film discharge tray			●			
Cleaning air intake/outlet					●	
Cleaning tray			●			
Printing SMPTE pattern and checking density		●				
Replacing FILTER			10000 sheets of film printed or sixth month [FILTER EXCHANGE] displayed			

■ Other service and maintenance

Service and maintenance	Cycle	Third month	Sixth month	12th month	24th month	36th month
Cleaning and inspecting the HPRO unit (opposite roller, separation claw, separation roller)		Each 20000 sheets of film printed (as a guide)				
Cleaning air-cooling section and the surrounding of the housing		Each 20000 sheets of film printed (as a guide)				
Cleaning cooling/discharge section and the transport guide		Each 20000 sheets of film printed (as a guide)				
Cleaning cooling/discharge section and the transport roller		Each 20000 sheets of film printed (as a guide)				
Cleaning cooling/discharge section and the cooling fan		Each 20000 sheets of film printed (as a guide)				
Cleaning cooling/discharge section and the wind-proof plate		Each 20000 sheets of film printed (as a guide)				
Cleaning off power from the cooling/discharge section and static eliminator brush		●				
Cleaning elevator transport section or HPRO entrance sensor		Each 20000 sheets of film printed (as a guide)				
Cleaning descent transport section and adhesion roller		Each 20000 sheets of film printed (as a guide)				
Cleaning electrical control section and cooling fan filter			●			
Replacing HPRO unit and cover non-woven cloth		Each 40000 sheets of film printed (as a guide)				
Replacing HPRO unit or separation claw non-woven cloth		Each 40000 sheets of film printed (as a guide)				
Replacing HPRO unit or heat insulation roller		Each 40000 sheets of film printed or each three years (as a guide)				
Replacing air-cooling section or filter duct		Each 40000 sheets of film printed (as a guide)				
Replacing cooling/discharge section or heat insulation roller		Each 40000 sheets of film printed or each three years (as a guide)				
Replacing cooling/discharge section or cooling guide non-woven cloth		Each 40000 sheets of film printed (as a guide)				
Replacing hard disk		Each five years or 20000 hours				
Replacing UPS battery (option)						●

Those described above are included in Maintenance Inspection.

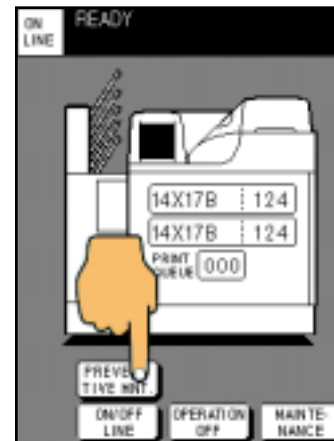
For performing Maintenance Inspection, consult a service person.

■ Confirming maintenance and maintenance display

In this device, [PREVENTIVE MNT] appears on the normal screen when Maintenance Inspection by a service person is required.

Follow the procedure below to confirm the Maintenance Inspection.

- (1) Touch [PREVENTIVE MNT] on the normal screen.



- (2) The Maintenance Inspection items are displayed.

The items with a checkmark in the box on the left need inspecting.

The screen on the right shows an example where an UPS battery (option) needs replacing.

PREVENTIVE MAINTENANCE A:

Maintenance required each six months or 20000 sheets of film printed

PREVENTIVE MAINTENANCE B:

Maintenance required every year

PREVENTIVE MAINTENANCE C:

Maintenance required each 20000 sheets of film printed

PREVENTIVE MAINTENANCE D:

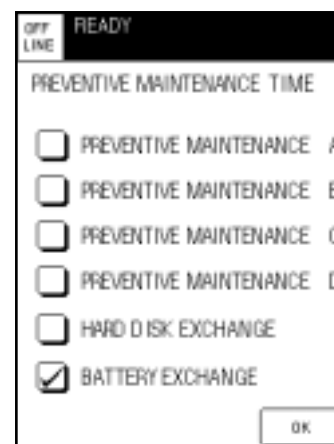
Maintenance required each 40000 sheets of film printed

HARD DISK EXCHANGE:

Shows replacement cycle of the hard disk in the device.

BATTERY EXCHANGE:

Shows the replacement cycle of the UPS battery (option).



- (3) After the settings are complete, touch [OK].

Returns to the normal screen.

IMPORTANT

- When [PREVENTIVE MNT] appears on the normal screen, check the Maintenance Inspection item, and contact a service person.
- [PREVENTIVE MNT] will not disappear until a service person completes the Maintenance Inspection.

7. Specifications

Model Name	: DRYPRO MODEL 752								
Model Type	: Dry Laser Imager								
Laser Source	: Semiconductor Laser								
Film Type	: Konica Medical Imaging Film SD-P, SD-PC, DR-P								
Film Size	: 14" x 17" 14" x 14" 11" x 14" The film sizes of 14" x 17", 14" x 14", and 11" x 14" are set at installation.								
Number of film	: Actual No. 125 sheets, 127 sheets in package Of two sheets of film, one for calibration and one for dummy film								
Interface (IN)	: Ethernet 10base- T/100base- TX								
Protocol	: DICOM Print Management								
Ports (IN)	: 16 ports max.								
Main Memory	: 128MB (standard)								
Image Memory	: Hard Disk 20GB (standard) Print Memory 256MB (standard)								
Performance	: 120 sheets/H (Continuous process of 14" x 17"-film)								
Dimensions (W x D x H)	: 750 x 690 x 1410 mm (29.5" x 27.2" x 55.5") without Sorter option								
Weight	: Approx. 280kg (616.7 lb) DP752 Approx. 250Kg (551lb) DP751								
Power	: 100 V - 120 V \pm 10% AC (single-phase) / 220 V - 240 V \pm 10% AC (single-phase), 9.0 A - 7.5 A / 4.5 A - 4.0 A (50 / 60Hz)								
Heat Generation	: Approx. 950kJ/H (226kcal/H)								
Operating Condition	: 15 to 30 °C (59 to 86 °F) / 30 to 70%RH (No condensation)								
Storage and Transport Condition	: -20 to 60 °C (-4 to 140 °F) / 20 to 90%RH (No condensation)								
Noise Level	: 55dB or less								
Control Panel	: LCD with a touch panel								
Film Supply	: Tray								
Number of Trays	: 2 trays								
Image Data Input	: 8 bits (256 steps) or 12 bits (4096 steps) (depending on the image signal of the modality)								
Output Gradation	: 16384 levels (14 bits)								
Image Mode	: Pixel replication / Function interpolation								
Pixel Size	: Optical scan / 40 to 80 μ m, Variable, Subscan / 40 μ m fixed (The recorded pixel size depends on the number of pixels and the format in the diagnostic device.)								
Image Matrix	: <table border="1"> <thead> <tr> <th>When connected to the Regius</th><th>When connected to any other than the Regius</th></tr> </thead> <tbody> <tr> <td>8,850 x 10,650 pixels (14" x 17")</td><td>8,550 x 10,225 pixels</td></tr> <tr> <td>8,850 x 8,750 pixels (14" x 14")</td><td>8,550 x 8,325 pixels</td></tr> <tr> <td>6,875 x 8,850 pixels (11" x 14")</td><td>6,675 x 8,325 pixels</td></tr> </tbody> </table>	When connected to the Regius	When connected to any other than the Regius	8,850 x 10,650 pixels (14" x 17")	8,550 x 10,225 pixels	8,850 x 8,750 pixels (14" x 14")	8,550 x 8,325 pixels	6,875 x 8,850 pixels (11" x 14")	6,675 x 8,325 pixels
When connected to the Regius	When connected to any other than the Regius								
8,850 x 10,650 pixels (14" x 17")	8,550 x 10,225 pixels								
8,850 x 8,750 pixels (14" x 14")	8,550 x 8,325 pixels								
6,875 x 8,850 pixels (11" x 14")	6,675 x 8,325 pixels								
Image Format	: 1, 2, 4, 6, 8, 9, 12, 15, 16, 20, 24, 25, 30, 35, 36, 42, 48, 54, 56, 60, 63, 64								
Positive/Negative	: Available								
Trim	: Available								

Specifications

Border	: Black or Clear
Stamp	: Printed in one line on film (selectable among upper, lower, right, and left parts on film)
Density Correction	: Included in the device
Start Timer	: Date/Time
Safety Standards	: IEC60601- 1- 2, IEC60601- 1, IEC60825
Remarks	: KONICA DRYPRO 752 is produced in factories that have been certified to be in compliance with the ISO9001:1996, ISO13488:1996, and EN40601:1996 quality control standards, as well as with the medical device directive FDA Premarket Notification 510(k) and GMP.
Accessories	: Power cable, Cutter (for film loading) x 2, Operation manual, A set of film size changing components
Optional Equipment	: Konica Printlink (II), FILTER, Sorter, UPS (Lead rechargeable battery)

Sorter (Option) Specifications

Model name	: LiS-752
Dimensions (W x D x H)	: 376 x 628 x 1695 mm (14.8" x 24.7" x 66.7")
Weight	: Approx. 71kg (156 lbs.)
Power source	: Supplied by DRYPRO
Number of bins	: 5
Film size	: 14" x 17", 14" x 14", 14" x 11"
No. of film stored	: 50 sheets (max.)/bin

- The specifications above subject to change without a notice.

Appendix

■ Time zone and code No. table

Code No.	Time zone	Summer Time	Code No.	Time zone	Summer Time
1	Afghanistan Standard Time	OFF	38	Israel Standard Time	OFF
2	Alaskan Standard Time	ON	39	Korea Standard Time	OFF
3	Arab Standard Time	OFF	40	Mexico Standard Time	ON
4	Arabian Standard Time	OFF	41	Mid-Atlantic Standard Time	ON
5	Arabic Standard Time	ON	42	Mountain Standard Time	ON
6	Atlantic Standard Time	ON	43	Myanmar Standard Time	OFF
7	AUS Central Standard Time	OFF	44	N. Central Asia Standard Time	ON
8	AUS Eastern Standard Time	ON	45	Nepal Standard Time	OFF
9	Azores Standard Time	ON	46	New Zealand Standard Time	ON
10	Canada Central Standard Time	OFF	47	Newfoundland Standard Time	ON
11	Cape Verde Standard Time	OFF	48	North Asia East Standard Time	ON
12	Caucasus Standard Time	ON	49	North Asia Standard Time	ON
13	Cen. Australia Standard Time	ON	50	Pacific SA Standard Time	ON
14	Central America Standard Time	OFF	51	Pacific Standard Time	ON
15	Central Asia Standard Time	OFF	52	Romance Standard Time	ON
16	Central Europe Standard Time	ON	53	Russian Standard Time	ON
17	Central European Standard Time	ON	54	SA Eastern Standard Time	OFF
18	Central Pacific Standard Time	OFF	55	SA Pacific Standard Time	OFF
19	Central Standard Time	ON	56	SA Western Standard Time	OFF
20	China Standard Time	OFF	57	Samoa Standard Time	OFF
21	Dateline Standard Time	OFF	58	SE Asia Standard Time	OFF
22	E. Africa Standard Time	OFF	59	Singapore Standard Time	OFF
23	E. Australia Standard Time	OFF	60	South Africa Standard Time	OFF
24	E. Europe Standard Time	ON	61	Sri Lanka Standard Time	OFF
25	E. South America Standard Time	ON	62	Taipei Standard Time	OFF
26	Eastern Standard Time	ON	63	Tasmania Standard Time	ON
27	Egypt Standard Time	ON	64	Tokyo Standard Time	OFF
28	Ekaterinburg Standard Time	ON	65	Tonga Standard Time	OFF
29	Fiji Standard Time	OFF	66	US Eastern Standard Time	OFF
30	FLE Standard Time	ON	67	US Mountain Standard Time	OFF
31	GMT Standard Time	ON	68	Vladivostok Standard Time	ON
32	Greenland Standard Time	ON	69	W. Australia Standard Time	OFF
33	Greenwich Standard Time	OFF	70	W. Central Africa Standard Time	OFF
34	GTB Standard Time	ON	71	W. Europe Standard Time	ON
35	Hawaiian Standard Time	OFF	72	West Asia Standard Time	OFF
36	India Standard Time	OFF	73	West Pacific Standard Time	OFF
37	Iran Standard Time	ON	74	Yakutsk Standard Time	ON

HANDLING AND STORAGE OF DRY FILM

Konica Dry Laser Imaging Film SD-P/SD-PC are medical film which does not need so called "Wet Process".

In order to achieve the best possible result under various conditions of use, please pay attention to the storage of the film as described below.

1. Handling and Storage of Unexposed Film

In the same manner as used for the normal medical film, please store the unexposed Dry Laser Imaging Film in a dark and cool place ($10\sim 23^{\circ}\text{C}$ ($50\sim 73^{\circ}\text{F}$)) which is protected from the influence of various radiation, with the package being sealed.

Attention should be given to the case that the film is kept and stored in a place where the temperature is 30°C (86°F) or higher, which may cause variations in the quality.

In the case that the film is stored in a film warehouse, please store the film where the temperature rise is less expected.

2. Handling and Storage of Developed Film

1) Heat processing film is rather sensitive to the high temperature and the intensive light even after the development.

For a long period of storage, please put the film in a film bag or the similar, and store it under the condition, 25°C (77°F) or lower. Higher the storage temperature, higher the risk of density increase or discoloration.

2) If the storage temperature exceeds 40°C (104°F), it may cause density variation or discoloration within a short period of time.

Please avoid leaving the film in a car under the sun shine or use of slide projector, etc..

3) In addition to the temperature, exposure to an intensive light results in an adverse effect on the image quality.

Please pay attention not to leave the film on the light box for a long period, which may cause the quality variation through the storage afterwards.

4) The image of Konica Dry Laser Imager Film may be affected by alcohol or developing chemicals, and may result in an inconsistent density.

However, due to the feature that it is less affected by moisture, dirt on the film surface can be cleaned using a cloth moistened with water.



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